Title of Invention: Emollients and Cosmetic Preparations

Inventors (please provide full names): Ansmann, Achim; Both, Saline; Prinz, Daniela; Schoeffler, Nicole; Westfechtel, Alfred

Earliest Priority Filing Date: 11/21/2003

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Please, do structure search for compounds of the formula (I) as in claim 6. Please include specific compounds (III) & (IV) as in claims 2 & 3. (see attached claims).

***** INVENTOR RESULTS *****

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=> d his l25

     (FILE 'HCAPLUS' ENTERED AT 10:38:18 ON 23 APR 2008)
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=> d que l25
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L5              SCR 2043
L7              STR
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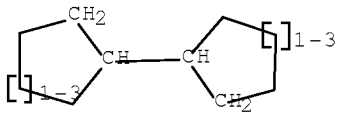

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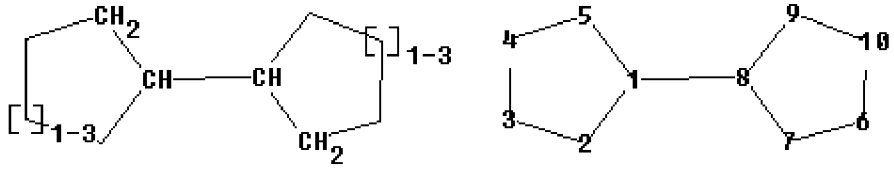


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ring nodes :
1  2  3  4  5  6  7  8  9  10
chain bonds :
1-8
ring bonds :
1-2  1-5  2-3  3-4  4-5  6-7  6-10  7-8  8-9  9-10
exact bonds :
1-2  1-5  1-8  2-3  3-4  4-5  6-7  6-10  7-8  8-9  9-10
isolated ring systems :
containing 1 : 6 :


Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:Atom
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L21          36 SEA FILE=HCAPLUS ABB=ON  PLU=ON  BOTH S?/AU
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=> d his l38

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=> d que l38
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L36           0 SEA SCHOEFFLER N?/AU
L37          14 SEA WESTFECHTEL A?/AU
L38           1 SEA L33 AND ((L34 OR L35 OR L36 OR L37))


=> dup rem l25 l38
DUPLICATE IS NOT AVAILABLE IN 'KOSMET'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
FILE 'HCAPLUS' ENTERED AT 10:51:55 ON 23 APR 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'BIOSIS' ENTERED AT 10:51:55 ON 23 APR 2008
Copyright (c) 2008 The Thomson Corporation
PROCESSING COMPLETED FOR L25
PROCESSING COMPLETED FOR L38
L42           2 DUP REM L25 L38 (0 DUPLICATES REMOVED)
                ANSWER '1' FROM FILE HCAPLUS
                ANSWER '2' FROM FILE BIOSIS

=> d l42 1 ibib abs hitstr; d l42 2 ibib ab

L42  ANSWER 1 OF 2  HCAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:         2003:757495  HCAPLUS  Full-text
DOCUMENT NUMBER:          139:250016
TITLE:                    Oil bodies for cosmetic compositions containing
                          cyclohexylcyclohexane
INVENTOR(S):              Kawa, Rolf; Ansmann, Achim; Prinz,
                          Daniela; Both, Sabine
PATENT ASSIGNEE(S):       Cognis Deutschland Gmbh & Co. Kg, Germany
SOURCE:                   PCT Int. Appl., 50 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 German
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.        DATE
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     WO 2003077879         A1    20030925    WO 2003-EP2286         20030306
         W:  AU, BR, CA, CN, JP, KR, US
         RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
             IT, LU, MC, NL, PT, RO, SE, SI, SK, TR
     DE 10254315           A1    20031002    DE 2002-10254315       20021121
     AU 2003214099         A1    20030929    AU 2003-214099         20030306
     EP 1485063            A1    20041215    EP 2003-709753         20030306
     EP 1485063            B1    20060510
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK
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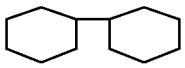
JP 2005526078	T	20050902	JP 2003-575933		20030306
ES 2261922	T3	20061116	ES 2003-709753		20030306
EP 1421929	A2	20040526	EP 2003-26023		20031112
EP 1421929	A3	20041124			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK					
US 20040142009	A1	20040722	US 2003-719588		20031121 <--
US 20050220826	A1	20051006	US 2005-507674		20050408
PRIORITY APPLN. INFO.:			DE 2002-10211618	A	20020315
			DE 2002-10254315	A	20021121
			WO 2003-EP2286	W	20030306

AB The invention relates to a cosmetic agent, containing at least one aqueous phase and an oil phase that is non-soluble in the aqueous phase. The agent is characterized in that the oil phase completely or partially contains the cyclohexylcyclohexane. Thus an O/W sunscreen lotion contained (weight/weight%): Eumulgin B2 2; Cutina E24 1; Cutina MD 2; Lanette 14 1; Lanette O 1; cyclohexylcyclohexane 2; Myritol 331 5; Dow Corning DC 244 4; Neo Heliopan Hydro sodium salt 2; Neo Heliopan AP sodium salt 2; Neo Heliopan 303 3; Neo Heliopan MBC 2; Uvinul T 150 2; zinc oxyde NDM 10; glycerin 5; water to 100.

IT 92-51-3, Cyclohexylcyclohexane
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(oil bodies for cosmetic compns. containing cyclohexylcyclohexane)

RN 92-51-3 HCAPLUS

CN 1,1'-Bicyclohexyl (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L42 ANSWER 2 OF 2 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN

AN 1999:343817 BIOSIS Full-text

DN PREV199900343817

TI Cosmetic and/or pharmaceutical formulations.

AU Thomas, Heike [Inventor, Reprint author]; Ansmann, Achim [Inventor]; Kawa, Rolf [Inventor]; Wadle, Armin [Inventor]; Bunte, Reinhard [Inventor]; Hees, Udo [Inventor]; Westfechtel, Alfred [Inventor]

CS Langenfeld, West Germany
ASSIGNEE: Henkel Kommanditgesellschaft auf Aktien

PI US 5902590 19990802

SO Official Gazette of the United States Patent and Trademark Office Patents, (02-AUG-99) Vol. 1222, No. 2. print.
CODEN: OGUPE7. ISSN: 0098-1133.

DT Patent

LA English

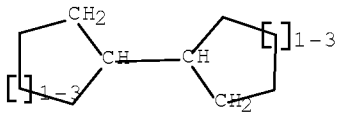
ED Entered STN: 24 Aug 1999
Last Updated on STN: 24 Aug 1999

***** QUERY RESULTS *****

=> d his l19

(FILE 'HCAPLUS' ENTERED AT 10:38:18 ON 23 APR 2008)
L19 37 S L18 AND (AY<2003 OR PY<2003 OR PRY<2003)

=> d que l19
L5 SCR 2043
L7 STR



Structure attributes must be viewed using STN Express query preparation:

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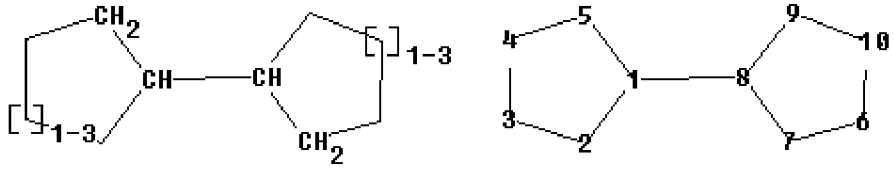

ring nodes :
1 2 3 4 5 6 7 8 9 10
chain bonds :
1-8
ring bonds :
1-2 1-5 2-3 3-4 4-5 6-7 6-10 7-8 8-9 9-10
exact bonds :
1-2 1-5 1-8 2-3 3-4 4-5 6-7 6-10 7-8 8-9 9-10
isolated ring systems :
containing 1 : 6 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

L11 15583 SEA FILE=REGISTRY SSS FUL L7 NOT L5
L12 6004 SEA FILE=HCAPLUS ABB=ON PLU=ON L11
L13 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L12 AND 62-4/SC,SX
L14 51 SEA FILE=HCAPLUS ABB=ON PLU=ON L12 AND 62/SC,SX
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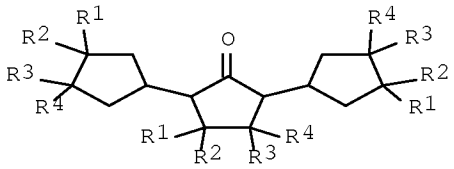
L16 12 SEA FILE=HCAPLUS ABB=ON PLU=ON L12 AND L15
L18 55 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 OR L14 OR L16
L19 37 SEA FILE=HCAPLUS ABB=ON PLU=ON L18 AND (AY<2003 OR PY<2003 OR PRY<2003)

=> d l19 ibib ed abs hitstr hitind 1-37

L19 ANSWER 1 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:351634 HCAPLUS Full-text
DOCUMENT NUMBER: 140:356975
TITLE: Preparation of 2,5-disubstituted cyclopentanones and 2,5-disubstituted cyclopentanols for fragrance materials
INVENTOR(S): Kondo, Yoshihisa
PATENT ASSIGNEE(S): Nippon Zeon Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004131439	A	20040430	JP 2002-298609	20021011 <--
PRIORITY APPLN. INFO.:			JP 2002-298609	20021011 <--

OTHER SOURCE(S): CASREACT 140:356975; MARPAT 140:356975
ED Entered STN: 30 Apr 2004
GI



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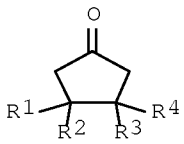
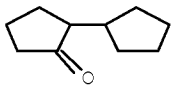


II

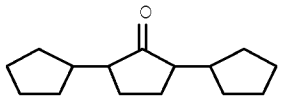
AB Dicyclopentylcyclopentanones I (R1-R4 = H, C1-10 alkyl), useful for fragrance materials (no data), are prepared by aldol condensation reaction of cyclopentanones II (R1-R4 = same as I) in the presence of bases and without isolation, hydrogenation of C-C double bonds in 2,5-dicyclopentylidenecyclopentanones. Reduction of carbonyl groups in I (R1-R4 = same as I) gives 2,5-dicyclopentylcyclopentanols. Cyclopentanone was condensed in the presence of NaOMe in PhMe at 80° for 8 h, hydrogenated with H using Pd/C in EtOH at 45-55° for 12 h, and reduced in the presence of Ru/C in EtOH at 70° for 10 h under H to give 65% 2,5-dicyclopentylcyclopentan-1-ol.

IT 4884-24-6P, 2-Cyclopentylcyclopentanone 77189-09-4P, 2,5-Dicyclopentylcyclopentanone
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of dicyclopentylcyclopentanols by aldol condensation of cyclopentanones, hydrogenation, and reduction)

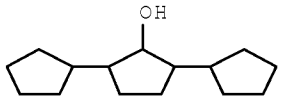
RN 4884-24-6 HCAPLUS
CN [1,1'-Bicyclopentyl]-2-one (CA INDEX NAME)



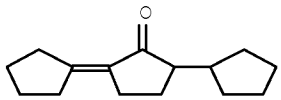
RN 77189-09-4 HCAPLUS
CN [1,1':3',1''-Tercyclopentan]-2'-one (6CI, 9CI) (CA INDEX NAME)



IT 77189-02-7P, 2,5-Dicyclopentylcyclopentan-1-ol
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(preparation of dicyclopentylcyclopentanols by aldol condensation of cyclopentanones, hydrogenation, and reduction)
RN 77189-02-7 HCAPLUS
CN [1,1':3',1''-Tercyclopentan]-2'-ol (6CI, 9CI) (CA INDEX NAME)



IT 134317-50-3P, 2-Cyclopentylidene-5-cyclopentylcyclopentanone
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of dicyclopentylcyclopentanols by aldol condensation of cyclopentanones, hydrogenation, and reduction)
RN 134317-50-3 HCAPLUS
CN [1,1'-Bicyclopentyl]-2-one, 3-cyclopentylidene- (CA INDEX NAME)



IC ICM C07C045-62
ICS C07C029-145; C07C035-21; C07C049-417; C07B061-00
CC 24-4 (Alicyclic Compounds)
Section cross-reference(s): 62
IT 825-25-2P, 2-Cyclopentylidenecyclopentanone 4884-24-6P, 2-Cyclopentylcyclopentanone 5682-82-6P, 2,5-Dicyclopentylidenecyclopentanone 77189-09-4P, 2,5-Dicyclopentylcyclopentanone
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic

preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of dicyclopentylcyclopentanols by aldol condensation of cyclopentanones, hydrogenation, and reduction)

IT 77189-02-7P, 2,5-Dicyclopentylcyclopentan-1-ol
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(preparation of dicyclopentylcyclopentanols by aldol condensation of cyclopentanones, hydrogenation, and reduction)

IT 134317-50-3P, 2-Cyclopentylidene-5-cyclopentylcyclopentanone
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of dicyclopentylcyclopentanols by aldol condensation of cyclopentanones, hydrogenation, and reduction)

L19 ANSWER 2 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2003:757495 HCAPLUS Full-text
DOCUMENT NUMBER: 139:250016
TITLE: Oil bodies for cosmetic compositions containing cyclohexylcyclohexane
INVENTOR(S): Kawa, Rolf; Ansmann, Achim; Prinz, Daniela; Both, Sabine
PATENT ASSIGNEE(S): Cognis Deutschland Gmbh & Co. Kg, Germany
SOURCE: PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003077879	A1	20030925	WO 2003-EP2286	20030306 <--
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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
DE 10254315	A1	20031002	DE 2002-10254315	20021121 <--
AU 2003214099	A1	20030929	AU 2003-214099	20030306 <--
EP 1485063	A1	20041215	EP 2003-709753	20030306 <--
EP 1485063	B1	20060510		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK				
JP 2005526078	T	20050902	JP 2003-575933	20030306 <--
ES 2261922	T3	20061116	ES 2003-709753	20030306 <--
EP 1421929	A2	20040526	EP 2003-26023	20031112 <--
EP 1421929	A3	20041124		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 20040142009	A1	20040722	US 2003-719588	20031121 <--
US 20050220826	A1	20051006	US 2005-507674	20050408 <--

PRIORITY APPLN. INFO.:
DE 2002-10211618 A 20020315 <--
DE 2002-10254315 A 20021121 <--
WO 2003-EP2286 W 20030306

ED Entered STN: 26 Sep 2003

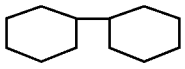
AB The invention relates to a cosmetic agent, containing at least one aqueous phase and an oil phase that is non-soluble in the aqueous phase. The agent is characterized in that the oil phase completely or partially contains the cyclohexylcyclohexane. Thus an O/W sunscreen lotion contained (weight/weight%): Eumulgin B2 2; Cutina E24 1; Cutina MD 2; Lanette 14 1; Lanette O 1; cyclohexylcyclohexane 2; Myritol 331 5; Dow Corning DC 244 4; Neo Heliopan Hydro sodium salt 2; Neo Heliopan AP sodium salt 2; Neo Heliopan 303

3; Neo Heliopan MBC 2; Uvinul T 150 2; zinc oxyde NDM 10; glycerin 5; water to 100.

IT 92-51-3, Cyclohexylcyclohexane
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(oil bodies for cosmetic compns. containing cyclohexylcyclohexane)

RN 92-51-3 HCAPLUS

CN 1,1'-Bicyclohexyl (CA INDEX NAME)



IC ICM A61K007-48
ICS A61K007-42

CC 62-4 (Essential Oils and Cosmetics)

IT Cosmetics
(emulsions; oil bodies for cosmetic compns. containing cyclohexylcyclohexane)

IT Cosmetics
(lotions; oil bodies for cosmetic compns. containing cyclohexylcyclohexane)

IT Cosmetics
(sprays; oil bodies for cosmetic compns. containing cyclohexylcyclohexane)

IT 92-51-3, Cyclohexylcyclohexane 112-72-1, Lanette 14 556-67-2, Dow Corning 244
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(oil bodies for cosmetic compns. containing cyclohexylcyclohexane)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 3 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:371661 HCAPLUS Full-text

DOCUMENT NUMBER: 138:390526

TITLE: Odor masking compositions containing fragrant substances for hair cosmetics

INVENTOR(S): Kawasaki, Kiyomitsu

PATENT ASSIGNEE(S): Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 81 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003137758	A	20030514	JP 2001-330894	20011029 <--
PRIORITY APPLN. INFO.:			JP 2001-330894	20011029 <--

ED Entered STN: 15 May 2003

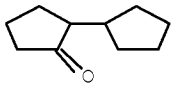
AB The compns., useful for permanent wave agents, hair dyes, etc., contain ≥1 fragrances chosen from hydrocarbons, alcs., phenols, aldehydes and/or acetals, ketones and/or ketals, ethers, synthetic musks, acids, lactones, esters, N-, S-, and/or halogen-containing compds., and natural fragrances. A fragrance composition was prepared from 1,3,5-undecatriene 10, 10-undecenol 10, 1-octen-3-ol 10, 10-undecenal 10, 2,4-decadienal 10, 1,8-cineole 10, phenylacetic acid

(1%) 10, 1-ethynylcyclohexyl acetate 10, 1-octen-3-yl acetate 5, 2-ethylhexyl acetate 10, and Abies fir oil 5 weight parts.

IT 4884-24-6, 2-Cyclopentylcyclopentanone
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(odor masking compns. containing fragrant substances for hair cosmetics)

RN 4884-24-6 HCAPLUS

CN [1,1'-Bicyclopentyl]-2-one (CA INDEX NAME)



IC ICM A61K007-46
ICS A61K007-06; A61K007-09; A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

IT 2306-88-9, Octyl octanoate 2306-91-4, Isoamyl decanoate 2311-46-8, Isopropyl hexanoate 2311-59-3, Isopropyl decanoate 2315-68-6, Propyl benzoate 2345-24-6, Neryl isobutyrate 2345-26-8, Geranyl isobutyrate 2349-07-7, Hexyl isobutyrate 2349-14-6, Methyl geranate 2351-90-8, Ethyl 2-octenoate 2363-88-4, 2,4-Decadienal 2408-20-0, Allyl propionate 2412-80-8, Methyl isohexanoate 2432-51-1 2436-90-0, Dihydromyrcene 2437-25-4, Dodecanonitrile 2442-10-6, 1-Octen-3-yl acetate 2444-46-4, Nonanoylvanillylamide 2445-76-3, Hexyl propionate 2445-77-4, 2-Methylbutyl isovalerate 2497-18-9, trans-2-Hexenyl acetate 2568-25-4, Benzaldehyde propylene glycol acetal 2623-23-6, L-Menthyl acetate 2630-39-9, Methyl dihydrojasmonate 2639-63-6, Hexyl butyrate 2705-87-5, Allyl cyclohexanepropionate 2721-22-4, δ-Tetradecalactone 2756-56-1, Isobornyl propionate 2785-87-7, Dihydroeugenol 2785-89-9, 4-Ethylguaiacol 2807-30-9, Ethylene glycol monopropyl ether 2835-39-4, Allyl isovalerate 2847-30-5, 2-Methoxy-3-methylpyrazine 2949-92-0, S-Methyl methanethiosulfonate 2979-22-8 2983-37-1, Ethyl 2-ethylhexanoate 3142-72-1, 2-Methyl-2-pentenoic acid 3149-28-8, Methoxypyrazine 3160-37-0, Heliotropylacetone 3268-49-3, Methional 3301-94-8, δ-Nonalactone 3387-41-5, Sabinene 3391-83-1, 1,7-Dioxacycloheptadecan-8-one 3391-86-4, 1-Octen-3-ol 3452-97-9, 3,5,5-Trimethylhexanol 3454-07-7, p-Ethylstyrene 3558-60-9 3581-91-7, 4,5-Dimethylthiazole 3583-00-4, 4-Isopropyl-5,5-dimethyl-1,3-dioxane 3613-30-7, Methoxycitronellal 3658-77-3, Furaneol 3658-80-8, Dimethyl trisulfide 3658-93-3, Hexanal diethyl acetal 3681-71-8, cis-3-Hexenyl acetate 3683-12-3 3779-62-2, Sinensal 3796-70-1, Geranylacetone 3848-24-6, 2,3-Hexanedione 3913-81-3 3913-85-7, 2-Decenoic acid 4230-97-1, Allyl caprylate 4265-97-8, Heptyl octanoate 4351-10-4 4360-47-8, Styryl cyanide 4362-22-5 4430-31-3, Octahydrocoumarin 4437-20-1, Furfuryl disulfide 4437-51-8, 3,4-Hexanedione 4442-79-9, Cyclohexylethyl alcohol 4455-13-4, Ethyl methylthioacetate 4500-58-7, 2-Ethylbenzenethiol 4547-43-7 4602-84-0, Farnesol 4606-15-9, Propylphenyl acetate 4621-04-9, 4-Isopropylcyclohexanol 4630-07-3, Valencene 4674-50-4, Nootkatone 4676-39-5 4728-82-9, Allyl cyclohexylacetate 4747-07-3, Methyl hexyl ether 4819-67-4 4861-85-2, Isopropylphenyl acetate 4864-61-3, 3-Octyl acetate 4884-24-6, 2-Cyclopentylcyclopentanone 4927-36-0 4940-11-8, Ethylmaltol 4951-48-8, L-Menthyl propionate 5132-75-2, Octyl heptanoate 5146-66-7, Geranylnitrile 5205-11-8, Prenyl benzoate 5240-32-4, 1-Ethynylcyclohexyl acetate 5320-75-2, Cinnamyl benzoate 5331-32-8,

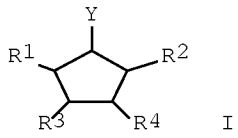
Isobornyl methyl ether 5392-40-5, Citral 5405-41-4, Ethyl 3-hydroxybutyrate 5406-58-6, 2,5,5-Trimethyl-2-phenyl-1,3-dioxane 5421-17-0, Hexylphenyl acetate 5452-07-3 5457-70-5, Phenylethyl caprylate 5462-06-6, Canthoxal 5468-05-3 5468-06-4 5471-51-2, Raspberry ketone 5502-75-0, Mayol 5577-44-6, 2,4-Octadienal 5579-78-2, ε-Decalactone 5760-50-9, Methyl 9-undecenoate 5764-85-2, Ethyl 3-hydroxy-3-phenylpropionate 5837-78-5, Ethyl tiglate 5870-93-9, Heptyl butyrate 5910-85-0, 2,4-Heptadienal 5910-89-4, 2,3-Dimethylpyrazine 5947-36-4, Pinocarveol 5948-04-9, Dihydrocarvone 5953-76-4, Methyl angelate 5986-55-0, Patchouli alcohol 6028-61-1, Dipropyl trisulfide 6066-49-5, 3-n-Butyl phthalide 6079-97-6, Ethyl 2-hexylacetoacetate 6259-76-3, Hexyl salicylate 6270-03-7, Phenyl glycol diacetate 6304-24-1, 2-Isobutylpyridine 6309-51-9 6378-65-0, Hexyl hexanoate 6413-10-1, Ethyl acetoacetate ethylene glycol ketal 6485-40-1, L-Carvone 6493-80-7 6658-48-6 6707-60-4, 1,6-Dioxacycloheptadecan-7-one 6728-26-3, trans-2-Hexenal 6750-03-4, 2,4-Nonadienal 6789-80-6, cis-3-Hexenal 6789-88-4, Hexyl benzoate 6881-94-3, Diethylene glycol monopropyl ether 6915-15-7, Malic acid 6938-45-0, Benzyl hexanoate 6976-72-3, Heptyl hexanoate 7011-83-8 7051-39-0, Dihydrojasmone 7069-41-2, trans-2-Tridecenal 7074-08-0 7212-44-4, Nerolidol 7289-52-3, Decyl methyl ether 7335-26-4, Ethyl o-methoxybenzoate 7370-92-5 7392-19-0, 2,2,6-Trimethyl-6-vinyltetrahydropyran 7403-42-1, 4-Methyl-4-phenyl-2-pentanone 7416-35-5 7452-79-1, Ethyl 2-methylbutyrate 7460-74-4, Phenylethyl valerate 7492-66-2, Citral diethyl acetal 7492-67-3, Citronellyloxyacetaldehyde 7492-70-8, Butyl butyryllactate 7493-57-4 7493-65-4, Allyl cyclohexanebutyrate 7493-69-8, Allyl 2-ethylbutyrate 7493-74-5, Allyl phenoxyacetate 7493-78-9, α-Amylcinnamyl acetate 7549-33-9, Anisyl propionate 7549-37-3, Citral dimethyl acetal 7580-12-3, 2,4,6-Triisopropyl-1,3,5-trioxane 7661-55-4, 5-Methylquinoline 7756-96-9 7774-44-9, Cyclohexyl isovalerate 7774-65-4 7775-39-5, Styralyl isobutyrate 7778-83-8, Propyl cinnamate 7778-85-0, Propylene glycol dimethyl ether 7778-87-2, Propyl heptanoate 7779-23-9, Linalyl hexanoate 7779-41-1, Decanal dimethyl acetal 7779-65-9, Isoamyl cinnamate 7779-78-4 7779-81-9, Isobutyl angelate 7779-94-4, Hydroxycitronellal diethyl acetal 7780-06-5, Isopropyl cinnamate 7784-67-0, Ethylisoeugenol 7785-33-3, Geranyl tiglate 7785-64-0, Butyl angelate 7786-44-9, 2,6-Nonadienol 7786-58-5, Octyl isovalerate 7787-20-4, L-Fenchone 8000-41-7, Terpineol 8000-41-7D, Terpineol, thio derivs. 8007-35-0, Terpinyl acetate 8013-00-1, Terpinene 8013-90-9, Ionone 8038-79-7, Benzoin oil 10022-28-3, Octanal dimethyl acetal 10024-64-3, Linalyl octanoate 10031-96-6, Eugenyl formate 10032-02-7, Geranyl hexanoate 10032-05-0, Heptanal dimethyl acetal 10032-13-0, Hexyl isovalerate 10032-15-2, Hexyl 2-methylbutyrate 10094-34-5 10108-80-2, Propylene glycol Dipropionate 10203-30-2, 3-Dodecanol 10221-57-5, Propylene glycol diethyl ether 10276-85-4 10318-16-8 10339-55-6, Ethyllinalool 10361-39-4, Benzyl valerate 10402-33-2, Eugenylphenyl acetate 10415-87-9 10444-50-5, Citral propylene glycol acetal 10482-55-0, Isoamyl angelate 10486-14-3, Rhodinyl phenylacetate 10486-19-8, Tridecanal 10519-11-6 10519-12-7, Decahydro-β-naphthyl formate 10544-63-5, Ethyl crotonate 10580-25-3, Citronellyl hexanoate 10588-10-0, Isobutyl valerate 10599-70-9, 3-Acetyl-2,5-dimethylfuran 10603-06-2 11028-42-5, Cedrene 11031-45-1, Santalol 11050-62-7, Isojasmone 11072-28-9, Dimethyloctenone 12001-36-4, Raspberry aldehyde 12262-03-2, Isoamyl undecylenate 12687-45-5, Caryophyllene aldehyde 13019-04-0 13019-22-2, 9-Decen-1-ol 13074-65-2, 2-Hexylcyclopentanone 13162-46-4, 2,4-Undecadienal 13162-47-5, 2,4-Dodecadienal 13171-00-1, Celestolide 13254-34-7, 2,6-Dimethylheptan-2-ol 13327-56-5, Ethyl

3-methylthiopropionate 13341-72-5, Mentha lactone 13351-61-6, 2,2-Dimethyl-3-phenylpropanol 13360-64-0, 2-Ethyl-5-methylpyrazine 13360-65-1, 2-Ethyl-3,6-dimethylpyrazine 13466-78-9 13481-87-3, Methyl 3-nonenoate
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(odor masking compns. containing fragrant substances for hair cosmetics)

L19 ANSWER 4 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2003:110854 HCAPLUS Full-text
DOCUMENT NUMBER: 138:169880
TITLE: Preparation of 2,5-disubstituted cyclopentanones and fragrance compositions
INVENTOR(S): Fujisawa, Hiroshi; Kondo, Yoshihisa
PATENT ASSIGNEE(S): Nippon Zeon Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003040821	A	20030213	JP 2001-228891	20010730 <--
WO 2003011803	A1	20030213	WO 2002-JP7638	20020729 <--
W: US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR				
EP 1420005	A1	20040519	EP 2002-755670	20020729 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR, BG, CZ, EE, SK				
US 20050009928	A1	20050113	US 2004-485382	20040817 <--
PRIORITY APPLN. INFO.:			JP 2001-228891 A	20010730 <--
			WO 2002-JP7638 W	20020729 <--

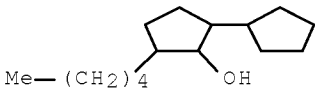
OTHER SOURCE(S): MARPAT 138:169880
ED Entered STN: 13 Feb 2003
GI



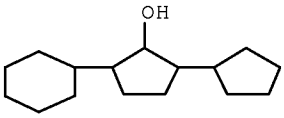
I

AB The compds. I (R1 = C4-7 alkyl, C4-7 alkylidene, cyclohexyl, cyclohexylidene; R2 = C4-7 alkyl, C4-7 alkylidene, cyclopentyl, cyclopentylidene, cyclohexyl, cyclohexylidene; R3, R4 = H, C1-4 alkyl; Y = OH, :O) are prepared 2-N-pentyl-5-cyclopentylcyclopentanone (prepared from 2-n-pentylcyclopentanone and cyclopentanone) was treated with NaBH4 at 30-40° for 15 h to give 63% 2-n-pentyl-5-cyclopentylcyclopentanol having good floral fragrance.
IT 496923-08-1P, 2-n-Pentyl-5-cyclopentylcyclopentanol
496923-11-6P, 2-Cyclohexyl-5-cyclopentylcyclopentanol
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 2,5-disubstituted cyclopentanones for fragrance)

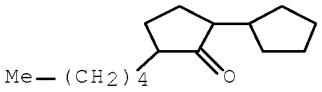
RN 496923-08-1 HCAPLUS
CN [1,1'-Bicyclopentyl]-2-ol, 3-pentyl- (CA INDEX NAME)



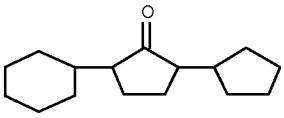
RN 496923-11-6 HCAPLUS
CN [1,1'-Bicyclopentyl]-2-ol, 3-cyclohexyl- (CA INDEX NAME)



IT 496923-10-5P, 2-n-Pentyl-5-cyclopentylcyclopentanone
496923-13-8P, 2-Cyclohexyl-5-cyclopentylcyclopentanone
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 2,5-disubstituted cyclopentanones for fragrance)
RN 496923-10-5 HCAPLUS
CN [1,1'-Bicyclopentyl]-2-one, 3-pentyl- (CA INDEX NAME)



RN 496923-13-8 HCAPLUS
CN [1,1'-Bicyclopentyl]-2-one, 3-cyclohexyl- (CA INDEX NAME)



IC ICM C07C035-06
ICS C07C035-21; C07C049-395; C07C049-417; C11B009-00; C11D003-50
CC 24-4 (Alicyclic Compounds)
Section cross-reference(s): 62
IT 496923-08-1P, 2-n-Pentyl-5-cyclopentylcyclopentanol
496923-11-6P, 2-Cyclohexyl-5-cyclopentylcyclopentanol
496923-14-9P, 2,5-Di-n-pentylcyclopentanol
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological

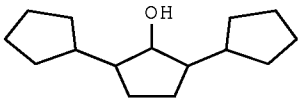
study); PREP (Preparation); USES (Uses)
(preparation of 2,5-disubstituted cyclopentanones for fragrance)

IT 343955-32-8P, 2,5-Di-n-pentylcyclopentanone 496923-09-2P, 2-n-Pentyl-5-cyclopentylidenecyclopentanone 496923-10-5P, 2-n-Pentyl-5-cyclopentylcyclopentanone 496923-12-7P, 2-Cyclohexylidene-5-cyclopentylidenecyclopentanone 496923-13-8P, 2-Cyclohexyl-5-cyclopentylcyclopentanone 496923-15-0P 496923-16-1P, 2-n-Pentylidene-5-n-pentylcyclopentanone
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 2,5-disubstituted cyclopentanones for fragrance)

L19 ANSWER 5 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2002:904402 HCAPLUS Full-text
DOCUMENT NUMBER: 137:389058
TITLE: High-purity cyclopentanone derivatives for perfume compositions
INVENTOR(S): Yamada, Masafumi; Fujisawa, Hiroshi
PATENT ASSIGNEE(S): Zeon Corporation, Japan
SOURCE: Eur. Pat. Appl., 17 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1260572	A1	20021127	EP 2001-112043	20010523 <--
EP 1260572	B1	20060503		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2001261609	A	20010926	JP 2000-80925	20000322 <--
US 20030012799	A1	20030116	US 2001-862346	20010523 <--
US 6653276	B2	20031125		
PRIORITY APPLN. INFO.:			JP 2000-80925 A	20000322 <--
			US 2001-862346 A	20010523 <--

OTHER SOURCE(S): MARPAT 137:389058
ED Entered STN: 29 Nov 2002
GI

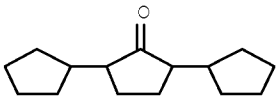


IV

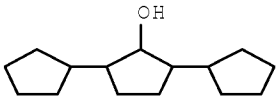
AB A composition comprising at least 60% by weight, based on the weight of the composition, of a cyclopentanone or cyclopentanol compound having 2,5-dicyclopentylidene substituents, 2,5-dicyclopentyl substituents or 2-cyclopentylidene-5- cyclopentyl substituents. This composition is useful as perfume emitting floral fragrance. 2,5-Dicyclopentylidenecyclopentanone (I) is prepared by reaction of 2-cyclopentylidenecyclopentanone with cyclopentanone. 2,5-Dicyclopentylcyclopentanone (II) and 2,5-

dicyclopentylidenecyclopentan ol (III) are prepared by reduction of I. IV is prepared by reduction of compound II or III. IV is added to a floral-type perfume composition for a body shampoo.

IT 77189-09-4P, 2,5-Dicyclopentylcyclopentanone
RL: COS (Cosmetic use); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(high-purity cyclopentanone derivs. for perfume compns.)
RN 77189-09-4 HCAPLUS
CN [1,1':3',1''-Tercyclopentan]-2'-one (6CI, 9CI) (CA INDEX NAME)



IT 77189-02-7DP, [1,1':3',1''-Tercyclopentan]-2'-ol, 2,5-Dicyclopentylcyclopentanol
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(high-purity cyclopentanone derivs. for perfume compns.)
RN 77189-02-7 HCAPLUS
CN [1,1':3',1''-Tercyclopentan]-2'-ol (6CI, 9CI) (CA INDEX NAME)



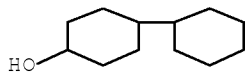
IC ICM C11B009-00
ICS C07C049-417; C07C035-21
CC 62-5 (Essential Oils and Cosmetics)
Section cross-reference(s): 24
IT 5682-82-6P 77189-09-4P, 2,5-Dicyclopentylcyclopentanone
362515-21-7P
RL: COS (Cosmetic use); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(high-purity cyclopentanone derivs. for perfume compns.)
IT 77189-02-7DP, [1,1':3',1''-Tercyclopentan]-2'-ol, 2,5-Dicyclopentylcyclopentanol
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(high-purity cyclopentanone derivs. for perfume compns.)
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 6 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2001:791862 HCAPLUS Full-text
DOCUMENT NUMBER: 135:348763
TITLE: Dentifrices containing antiseptics
INVENTOR(S): Yoshimura, Masanori; Tokumoto, Norifumi; Honma, Yoko; Ito, Satoshi

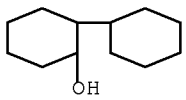
PATENT ASSIGNEE(S): Lion Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001302475	A	20011031	JP 2000-122798	20000424 <--

PRIORITY APPLN. INFO.: JP 2000-122798 20000424 <--
ED Entered STN: 31 Oct 2001
AB The title dentifrices comprise ≥ 1 substances selected from aldehydes, higher alcs., cycloalkanols, ketones, and their analogs as disinfectants. A dentifrice contained CaCO3 50, glycerin 20, carrageenan 0.5, CM cellulose 1, lauryldiethanolamide 1, sucrose monolaurate 2, flavors 1, Na saccharin 0.1, 2-methylresorcinol 0.1, distilled water balance q.s. to 100 %.
IT 2433-14-9, 4-Cyclohexylcyclohexanol 6531-86-8, 2-Cyclohexylcyclohexanol
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(dentifrices containing antiseptics)
RN 2433-14-9 HCAPLUS
CN [1,1'-Bicyclohexyl]-4-ol (CA INDEX NAME)



RN 6531-86-8 HCAPLUS
CN [1,1'-Bicyclohexyl]-2-ol (CA INDEX NAME)



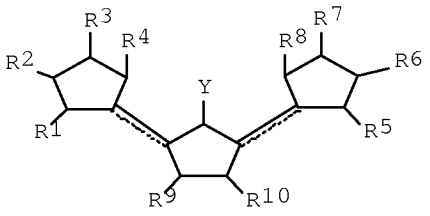
IC ICM A61K007-16
CC 62-7 (Essential Oils and Cosmetics)
IT 87-66-1, Pyrogallol 90-02-8, Salicylaldehyde, biological studies 95-01-2, 2,4-Dihydroxybenzaldehyde 98-01-1, Furfural, biological studies 100-83-4 111-27-3, Hexanol, biological studies 112-30-1, Decanol 112-42-5, Undecanol 112-53-8, Dodecanol 120-80-9, Catechol, biological studies 120-92-3D, Cyclopentanone, derivs. 123-08-0, p-Hydroxybenzaldehyde 137-03-1 139-85-5, 3,4-Dihydroxybenzaldehyde 143-08-8, Nonanol 150-76-5, p-Methoxyphenol 501-91-7, Junipal 502-61-4D, Farnesene, derivs. 515-69-5, Bisabolol 562-74-3 608-25-3, 2-Methylresorcinol 623-27-8, 1,4-Benzenedicarboxaldehyde 626-19-7, Isophthaldehyde 1461-04-7 1502-05-2, Cyclodecanol 1502-06-3, Cyclodecanone 1724-39-6, Cyclododecanol 1963-36-6, p-Methoxycinnamic

aldehyde 2433-14-9, 4-Cyclohexylcyclohexanol 4674-50-4, Nootkatone 5349-51-9 5986-55-0, Patchouli alcohol 6531-86-8, 2-Cyclohexylcyclohexanol 6728-26-3, trans-2-Hexenal 6789-80-6, cis-3-Hexenal 6812-78-8, Rhodinol 8013-90-9, Ionone 13074-65-2 14727-47-0, Isolongifolanone 18318-83-7, trans-2-Hexenal dimethylacetal 18871-14-2D, Jasmal, hydro derivs. 29221-56-5, Decanone 35044-68-9 37677-14-8, Empetaal 51547-44-5, Muscogene 51795-26-7 53175-87-4D, Cyclohexenyl, derivs. 53452-70-3, Undecanone 56011-02-0, Phenylethylisoamyl ether 67746-30-9, trans-2-Hexenal diethylacetal 69845-62-1, Undecenol 87376-12-3 125301-13-5, Tridecen-1-ol 370883-87-7
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(dentifrices containing antiseptics)

L19 ANSWER 7 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2001:704701 HCAPLUS Full-text
DOCUMENT NUMBER: 135:256995
TITLE: Preparation of cyclopentane derivatives as perfumes
INVENTOR(S): Yamada, Masafumi; Fujisawa, Hiroshi
PATENT ASSIGNEE(S): Nippon Zeon Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001261609	A	20010926	JP 2000-80925	20000322 <--
EP 1260572	A1	20021127	EP 2001-112043	20010523 <--
EP 1260572	B1	20060503		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 20030012799	A1	20030116	US 2001-862346	20010523 <--
US 6653276	B2	20031125		
PRIORITY APPLN. INFO.:			JP 2000-80925 A	20000322 <--
			US 2001-862346 A	20010523 <--

OTHER SOURCE(S): CASREACT 135:256995; MARPAT 135:256995
ED Entered STN: 27 Sep 2001
GI

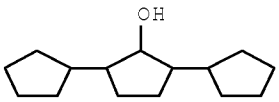


I

AB Claimed is a perfume composition containing cyclopentane derivs. I [the dotted line indicates single or double bond; R1 - R10 = H, alkyl; Y = OH, etc.]. Processes for preparing I are described. Thus, reduction of 2,5-dicyclopentylcyclopentanone by sodium borohydride gave 2,5-dicyclopentylcyclopentan-1-ol which is a sweet fragrance. A formulation containing 2,5-dicyclopentylcyclopentan-1-ol is given and tested.

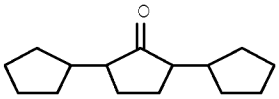
IT 77189-02-7P, [1,1':3',1''-Tercyclopentan]-2'-ol
RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of cyclopentane derivs. as perfumes)

RN 77189-02-7 HCAPLUS
CN [1,1':3',1''-Tercyclopentan]-2'-ol (6CI, 9CI) (CA INDEX NAME)



IT 77189-09-4P, [1,1':3',1''-Tercyclopentan]-2'-one
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of cyclopentane derivs. as perfumes)

RN 77189-09-4 HCAPLUS
CN [1,1':3',1''-Tercyclopentan]-2'-one (6CI, 9CI) (CA INDEX NAME)



IC ICM C07C049-653
ICS C07C029-143; C07C035-21; C07C045-74; C07C049-417; C11B009-00; C07B061-00

CC 24-4 (Alicyclic Compounds)
Section cross-reference(s): 62

IT 77189-02-7P, [1,1':3',1''-Tercyclopentan]-2'-ol
RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of cyclopentane derivs. as perfumes)

IT 5682-82-6P 77189-09-4P, [1,1':3',1''-Tercyclopentan]-2'-one
362515-21-7P
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of cyclopentane derivs. as perfumes)

L19 ANSWER 8 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2001:165713 HCAPLUS Full-text
DOCUMENT NUMBER: 134:215186
TITLE: Thermochromic liquid crystalline mixtures for use as inks and pigments
INVENTOR(S): Coates, David; Bishop, David; Hammond-Smith, Robert

PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Germany
SOURCE: Ger. Offen., 22 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10039377	A1	20010308	DE 2000-10039377	20000811 <--
GB 2355987	A	20010509	GB 2000-21053	20000825 <--
GB 2355987	B	20031126		
JP 2001139949	A	20010522	JP 2000-267081	20000904 <--
US 20030052305	A1	20030320	US 2002-246528	20020919 <--
US 6660345	B2	20031209		

PRIORITY APPLN. INFO.: EP 1999-116850 A 19990903 <--
US 2000-654926 A1 20000905 <--
OTHER SOURCE(S): MARPAT 134:215186
ED Entered STN: 09 Mar 2001
GI

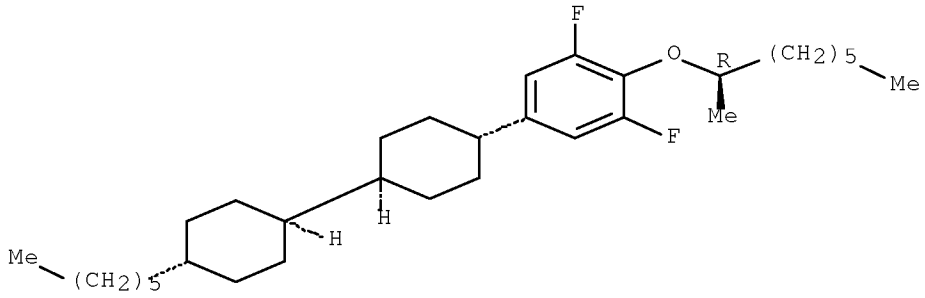
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention concerns a thermochromic liquid crystalline medium, containing a liquid crystalline mixture with an optically active component. The liquid crystalline mixts. comprise components of structures (I) or (II), wherein R1 and R2 independently are defined as halogen-substituted alkyls with up to 15 carbon atoms which may be connected by any of O, CH=CH, CO, COO, or OCO, with no two oxygen atoms directly connected; m and n equal 0 or 1; L1, L2, and L3 independently stand for H, F, or Cl; Y stands for F, Cl, or CN; and A stands for trans-1,4-cyclohexylene or a fluorinated 1,4-phenylene. The optically active dopant components are mols. of structures (III) or (IV), with any of the (R,S), (S,R), (R,R), or (S,S) enantiomers, wherein R5 and R6 independently are defined as straight or branched chain, halogen- or CN-substituted alkyls having up to 25 carbon atoms, for which one or more non-neighboring groups are connected through O, S, NH, N(CH3), CO, COO, OCO, OCOO, SCO, COS, or C.tplbond.C, such that no two oxygen atoms are directly connected, and R5 in IV can simply be H; MG stands for a mesogenic group; X stands for O, S, CO, COO, OCO, OCOO, CONH, NHCO, OCH2, CH2O, SCH2, or CH2S; Y stands for O, S, CO, COO, OCO, CONH, NHCO, CH2CH2, OCH2, CH2O, SCH2, CH2S, CH=CH, CH=CHCOO, OCOCH=CH, or C.tplbond.C; Sp stands for a spacer group with up to 20 carbon atoms; and m, n, p, and q are 0 or 1, with m + q ≠ 0. The liquid crystalline mixture and active components can be encased in translucent polymeric materials for use as thermochromic inks. Such inks can be used in decorative applications, such as pigments, printing inks and colors; in cosmetics; in thermal diagnostic applications, such as medical thermog.; in thermometry; in optical and electrooptical applications; and in security applications and devices, such as using a thermochromic liquid crystalline medium as a thermochromic ink or printing ink for documents with security markings.

IT 328311-79-1D, mixture containing
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)
(thermochromic liquid crystalline mixts. for use as inks and pigments)
RN 328311-79-1 HCAPLUS
CN Benzene, 1,3-difluoro-5-[(trans,trans)-4'-hexyl[1,1'-bicyclohexyl]-4-yl]-2-

[[(1R)-1-methylheptyl]oxy]- (CA INDEX NAME)

Absolute stereochemistry.

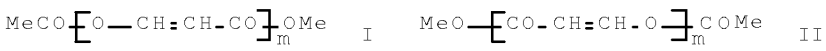


IC ICM C09K019-02
ICS C09K019-10; C09K019-58; C09D011-00; B44F001-12
CC 75-11 (Crystallography and Liquid Crystals)
Section cross-reference(s): 41, 42, 62, 73, 74
IT Cosmetics
Electrooptical imaging devices
Optical imaging devices
Pigments, nonbiological
Thermometry
(thermochromic liquid crystalline mixts. for use as inks and pigments)
IT 50649-60-0D, mixture containing 53132-13-1D, mixture containing 72928-02-0D, mixture
containing 74305-48-9D, mixture containing 79832-84-1D, mixture containing
80955-71-1D, mixture containing 85005-66-9D, mixture containing 89825-36-5D,
mesogenic carboxylic acid diesters 131739-13-4D, mixture containing
135567-43-0D, mixture containing 328311-76-8D, mixture containing 328311-77-9D,
mixture containing 328311-78-0D, mixture containing 328311-79-1D, mixture
containing
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)
(thermochromic liquid crystalline mixts. for use as inks and pigments)

L19 ANSWER 9 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2000:254137 HCAPLUS Full-text
DOCUMENT NUMBER: 132:271780
TITLE: New liquid crystal compound
INVENTOR(S): Poetsch, Eike; Binder, Werner; Krause, Joachim; Hirschmann, Harald; Derow, Stephan
PATENT ASSIGNEE(S): Merck Patent Gmbh, Germany
SOURCE: Ger. Offen., 28 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

DE 19941567 A1 20000420 DE 1999-19941567 19990901 <--
PRIORITY APPLN. INFO.: DE 1998-19840654 A1 19980905 <--
OTHER SOURCE(S): MARPAT 132:271780
ED Entered STN: 20 Apr 2000
GI

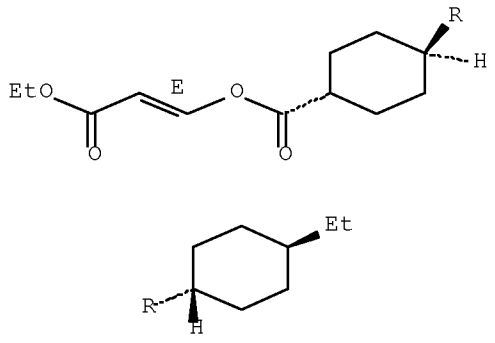


AB The invention relates to the new liquid crystal compound containing a structural element of I or its mirror image II (m = 1, 2, 3). The new liquid crystal compound can be used as a component of the liquid crystal composition and for manufacturing liquid crystal polymers. The new liquid crystal compound can be applicable to liquid crystal displays, optical elements, decoration purposes, etc.

IT 263548-89-6P 263548-90-9P 263548-91-0P
263548-92-1P 263549-31-1P 263549-32-2P
263549-33-3P 263549-34-4P 263549-35-5P
263549-36-6P 263549-37-7P 263549-38-8P
263549-39-9P 263549-40-2P 263549-41-3P
263549-42-4P 263549-43-5P 263549-44-6P
263549-45-7P 263549-47-9P 263549-48-0P
263549-49-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of new liquid crystal compound)

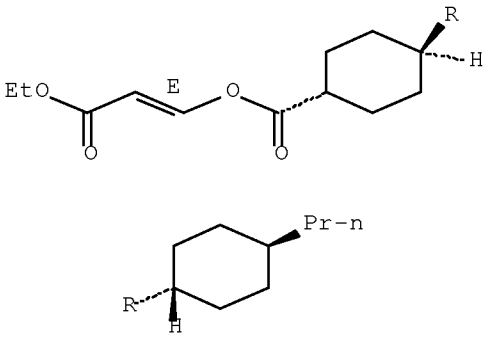
RN 263548-89-6 HCAPLUS
CN [1,1'-Bicyclohexyl]-4-carboxylic acid, 4'-ethyl-, (1E)-3-ethoxy-3-oxo-1-propenyl ester, (trans,trans)- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



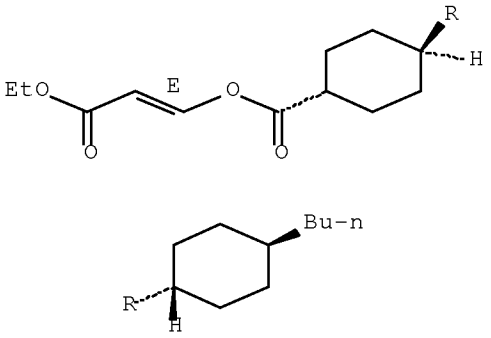
RN 263548-90-9 HCAPLUS
CN [1,1'-Bicyclohexyl]-4-carboxylic acid, 4'-propyl-, (1E)-3-ethoxy-3-oxo-1-propenyl ester, (trans,trans)- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



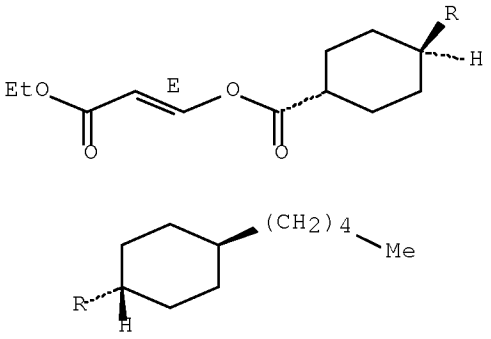
RN 263548-91-0 HCAPLUS
CN [1,1'-Bicyclohexyl]-4-carboxylic acid, 4'-butyl-, (1E)-3-ethoxy-3-oxo-1-propenyl ester, (trans,trans)- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



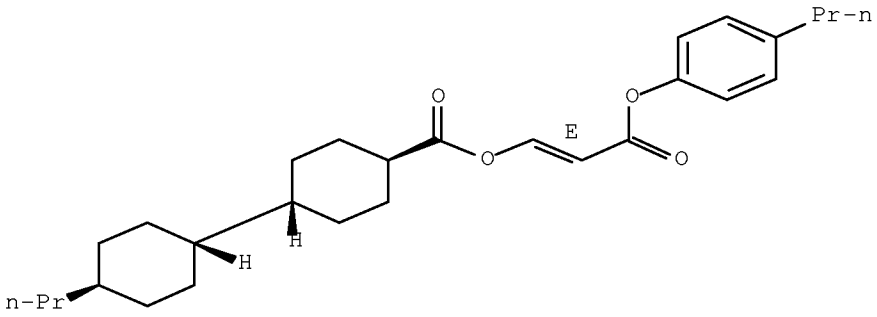
RN 263548-92-1 HCAPLUS
CN [1,1'-Bicyclohexyl]-4-carboxylic acid, 4'-pentyl-, (1E)-3-ethoxy-3-oxo-1-propenyl ester, (trans,trans)- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



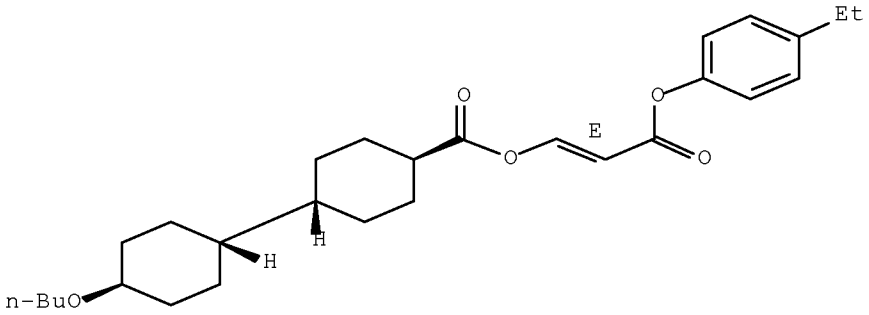
RN 263549-31-1 HCAPLUS
CN [1,1'-Bicyclohexyl]-4-carboxylic acid, 4'-propyl-, (1E)-3-oxo-3-(4-propylphenoxy)-1-propenyl ester, (trans,trans)- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



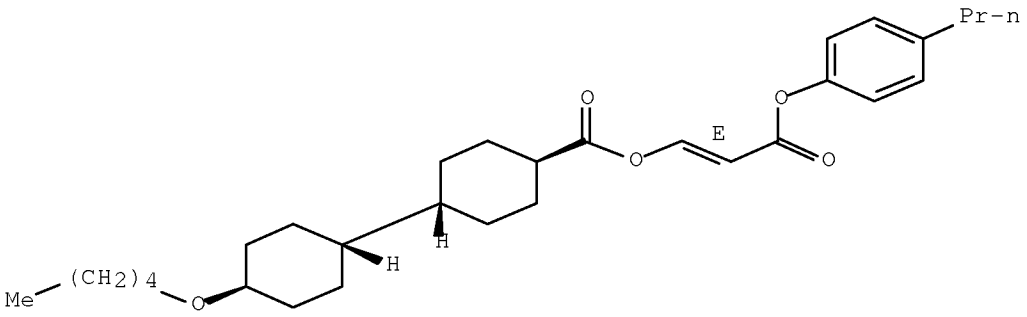
RN 263549-32-2 HCAPLUS
CN [1,1'-Bicyclohexyl]-4-carboxylic acid, 4'-butoxy-, (1E)-3-(4-ethylphenoxy)-3-oxo-1-propenyl ester, (trans,trans)- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



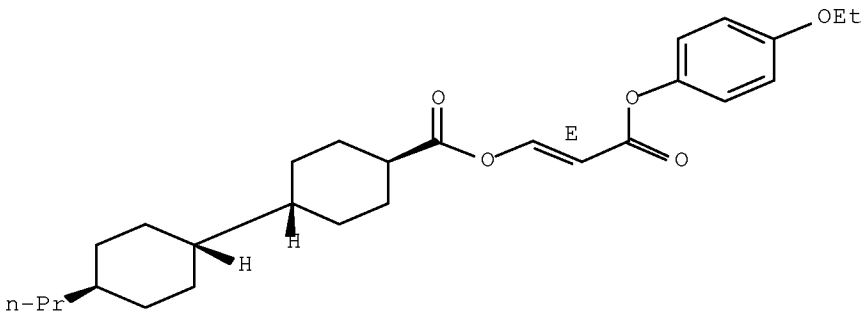
RN 263549-33-3 HCAPLUS
CN [1,1'-Bicyclohexyl]-4-carboxylic acid, 4'-(pentyloxy)-, (1E)-3-oxo-3-(4-propylphenoxy)-1-propenyl ester, (trans,trans)- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



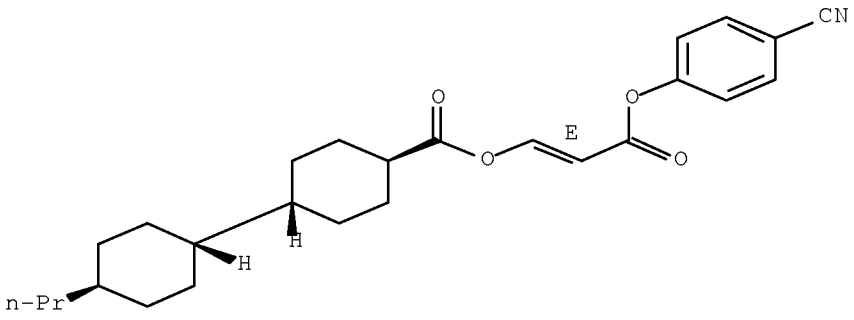
RN 263549-34-4 HCAPLUS
CN [1,1'-Bicyclohexyl]-4-carboxylic acid, 4'-propyl-, (1E)-3-(4-ethoxyphenoxy)-3-oxo-1-propenyl ester, (trans,trans)- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



RN 263549-35-5 HCAPLUS
CN [1,1'-Bicyclohexyl]-4-carboxylic acid, 4'-propyl-, (1E)-3-(4-cyanophenoxy)-3-oxo-1-propenyl ester, (trans,trans)- (9CI) (CA INDEX NAME)

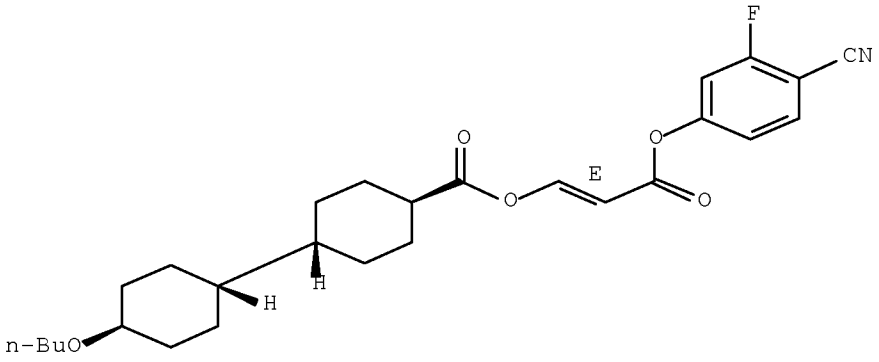
Relative stereochemistry.
Double bond geometry as shown.



RN 263549-36-6 HCAPLUS

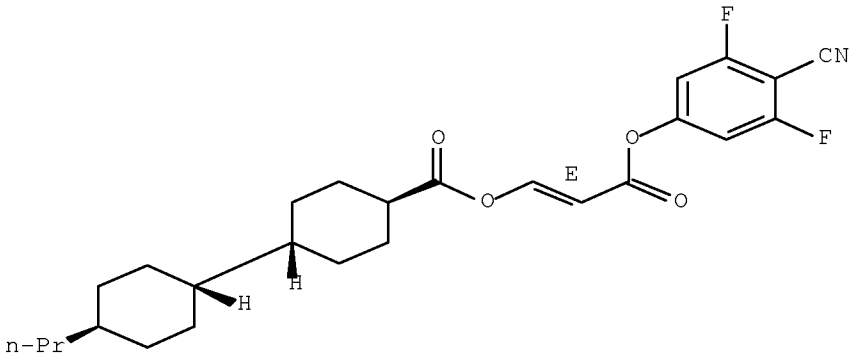
CN [1,1'-Bicyclohexyl]-4-carboxylic acid, 4'-butoxy-, (1E)-3-(4-cyano-3-fluorophenoxy)-3-oxo-1-propenyl ester, (trans,trans)- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



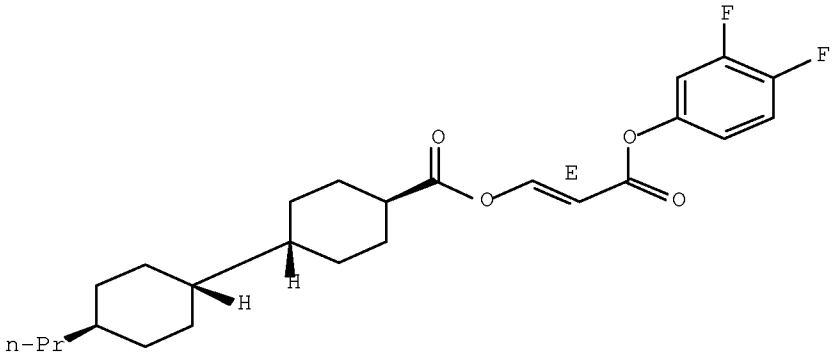
RN 263549-37-7 HCAPLUS
CN [1,1'-Bicyclohexyl]-4-carboxylic acid, 4'-propyl-, (1E)-3-(4-cyano-3,5-difluorophenoxy)-3-oxo-1-propenyl ester, (trans,trans)- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



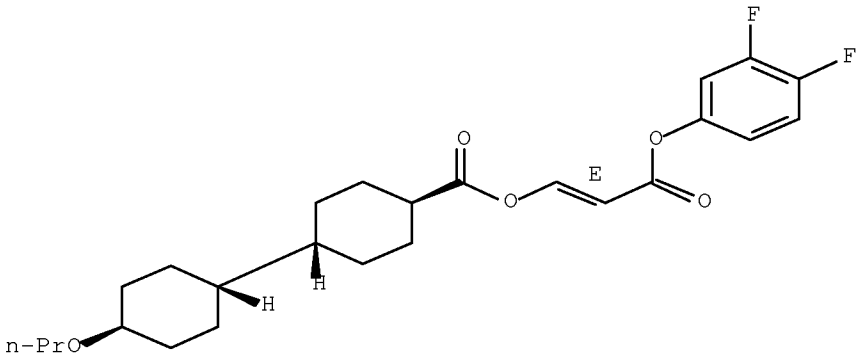
RN 263549-38-8 HCAPLUS
CN [1,1'-Bicyclohexyl]-4-carboxylic acid, 4'-propyl-, (1E)-3-(3,4-difluorophenoxy)-3-oxo-1-propenyl ester, (trans,trans)- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



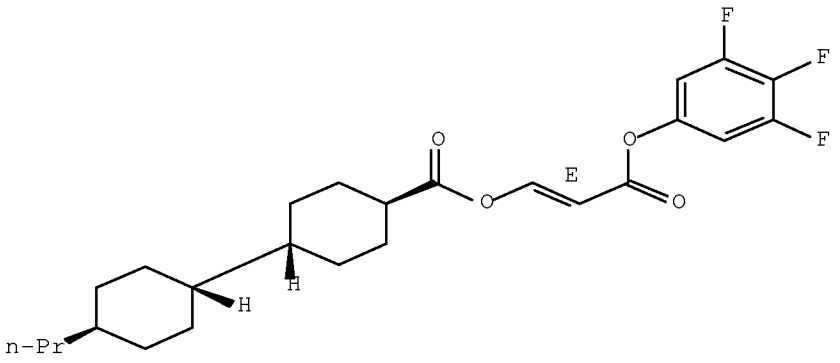
RN 263549-39-9 HCAPLUS
CN [1,1'-Bicyclohexyl]-4-carboxylic acid, 4'-propoxy-, (1E)-3-(3,4-difluorophenoxy)-3-oxo-1-propenyl ester, (trans,trans)- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



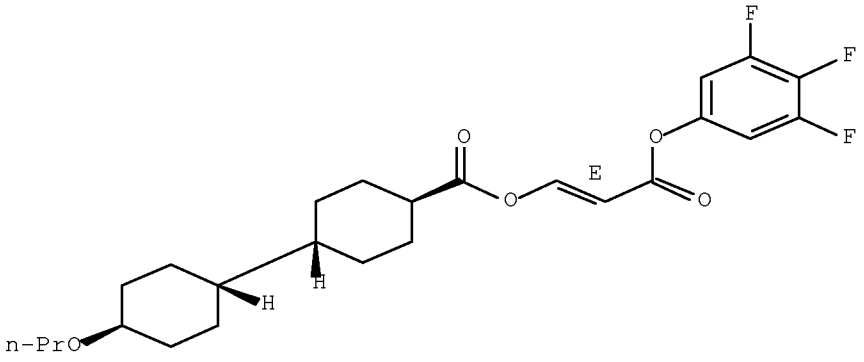
RN 263549-40-2 HCAPLUS
CN [1,1'-Bicyclohexyl]-4-carboxylic acid, 4'-propyl-, (1E)-3-oxo-3-(3,4,5-trifluorophenoxy)-1-propenyl ester, (trans,trans)- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



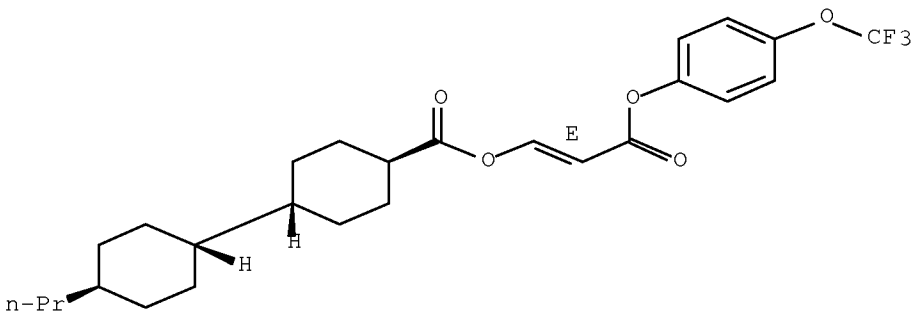
RN 263549-41-3 HCAPLUS
CN [1,1'-Bicyclohexyl]-4-carboxylic acid, 4'-propoxy-, (1E)-3-oxo-3-(3,4,5-trifluorophenoxy)-1-propenyl ester, (trans,trans)- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



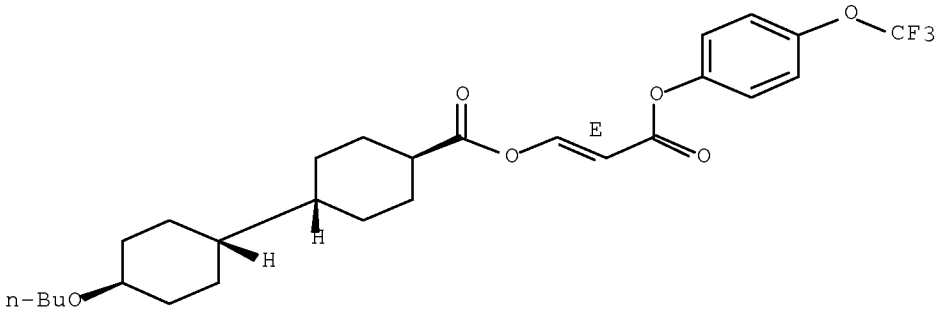
RN 263549-42-4 HCAPLUS
CN [1,1'-Bicyclohexyl]-4-carboxylic acid, 4'-propyl-, (1E)-3-oxo-3-[4-(trifluoromethoxy)phenoxy]-1-propenyl ester, (trans,trans)- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



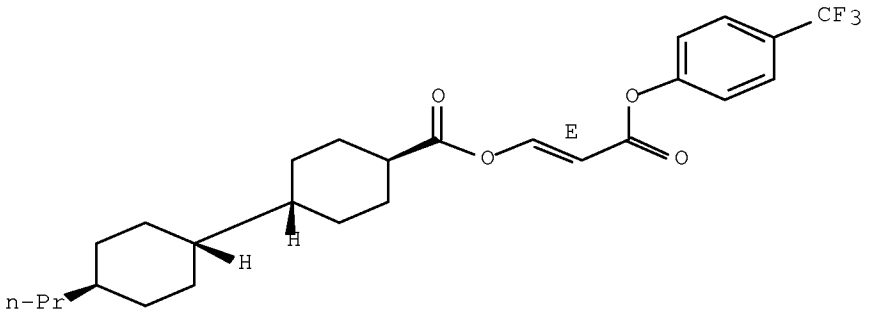
RN 263549-43-5 HCAPLUS
CN [1,1'-Bicyclohexyl]-4-carboxylic acid, 4'-butoxy-, (1E)-3-oxo-3-[4-(trifluoromethoxy)phenoxy]-1-propenyl ester, (trans,trans)- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



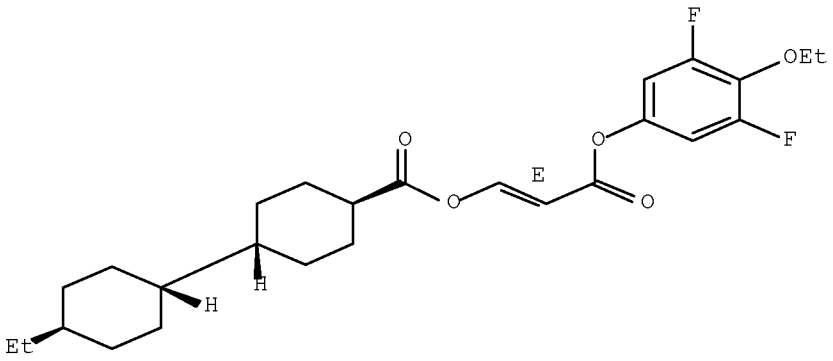
RN 263549-44-6 HCAPLUS
CN [1,1'-Bicyclohexyl]-4-carboxylic acid, 4'-propyl-, (1E)-3-oxo-3-[4-(trifluoromethyl)phenoxy]-1-propenyl ester, (trans,trans)- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



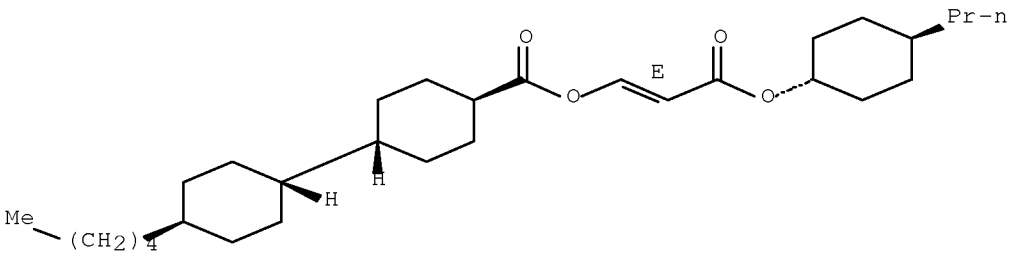
RN 263549-45-7 HCAPLUS
CN [1,1'-Bicyclohexyl]-4-carboxylic acid, 4'-ethyl-, (1E)-3-(4-ethoxy-3,5-difluorophenoxy)-3-oxo-1-propenyl ester, (trans,trans)- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



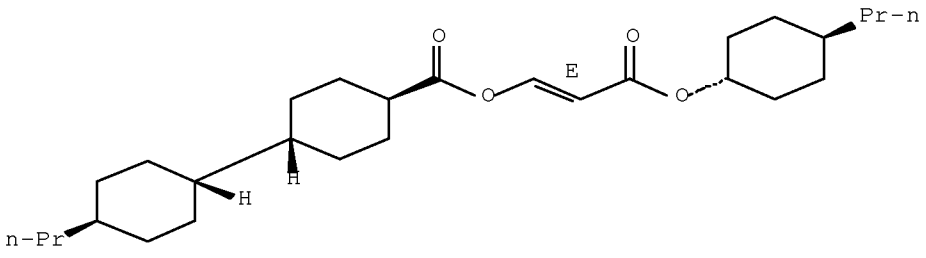
RN 263549-47-9 HCAPLUS
CN [1,1'-Bicyclohexyl]-4-carboxylic acid, 4'-pentyl-, (1E)-3-oxo-3-[(trans-4-propylcyclohexyl)oxy]-1-propenyl ester, (trans,trans)- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



RN 263549-48-0 HCAPLUS
CN [1,1'-Bicyclohexyl]-4-carboxylic acid, 4'-propyl-, (1E)-3-oxo-3-[(trans-4-propylcyclohexyl)oxy]-1-propenyl ester, (trans,trans)- (9CI) (CA INDEX NAME)

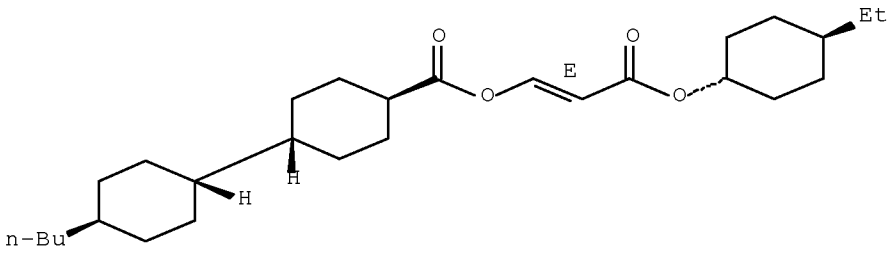
Relative stereochemistry.
Double bond geometry as shown.



RN 263549-49-1 HCAPLUS
CN [1,1'-Bicyclohexyl]-4-carboxylic acid, 4'-butyl-, (1E)-3-[(trans-4-

ethylcyclohexyl)oxy]-3-oxo-1-propenyl ester, (trans,trans)- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



IC ICM C07C069-73
ICS C09K019-06; C09K019-38; G09F009-35; G02F001-13; G02B001-04; C09J011-00; C07B061-00; G11B005-62; A61K007-00; G01N031-22

CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 75

IT Cosmetics
Decoration
Holography
Liquid crystal displays
Liquid crystals, polymeric
Nonlinear optical materials
Optical films
Optical filters
Optical recording materials
Pigments, nonbiological
(application of new liquid crystal compound to)

IT 263547-73-5P 263547-74-6P 263547-75-7P 263547-76-8P 263547-77-9P
263547-79-1P 263547-80-4P 263547-81-5P 263547-82-6P 263547-83-7P
263547-84-8P 263547-85-9P 263547-86-0P 263547-87-1P 263547-88-2P
263547-89-3P 263547-90-6P 263547-91-7P 263547-92-8P 263547-95-1P
263547-96-2P 263547-97-3P 263547-98-4P 263547-99-5P 263548-00-1P
263548-01-2P 263548-02-3P 263548-03-4P 263548-04-5P 263548-05-6P
263548-06-7P 263548-07-8P 263548-08-9P 263548-09-0P 263548-10-3P
263548-11-4P 263548-12-5P 263548-13-6P 263548-14-7P 263548-15-8P
263548-16-9P 263548-17-0P 263548-18-1P 263548-19-2P 263548-20-5P
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263549-33-3P 263549-34-4P 263549-35-5P
263549-36-6P 263549-37-7P 263549-38-8P
263549-39-9P 263549-40-2P 263549-41-3P
263549-42-4P 263549-43-5P 263549-44-6P
263549-45-7P 263549-46-8P 263549-47-9P
263549-48-0P 263549-49-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of new liquid crystal compound)

L19 ANSWER 10 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2000:133315 HCAPLUS Full-text
DOCUMENT NUMBER: 132:185260
TITLE: Preparation of oxime carboxylic acid derivatives for delivery of organoleptic and antimicrobial compounds
INVENTOR(S): Anderson, Denise; Frater, Georg
PATENT ASSIGNEE(S): Givaudan Roure (International) S.A., Switz.
SOURCE: Eur. Pat. Appl., 22 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

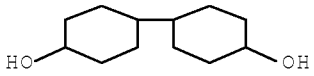
PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
EP 980863	A1	20000223	EP 1999-115880		19990812 <--
EP 980863	B1	20050202			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO					
AT 288418	T	20050215	AT 1999-115880		19990812 <--
ES 2235412	T3	20050701	ES 1999-115880		19990812 <--
CA 2280374	A1	20000217	CA 1999-2280374		19990816 <--
ZA 9905213	A	20000403	ZA 1999-5213		19990816 <--
BR 9903629	A	20000926	BR 1999-3629		19990816 <--
AU 9944533	A1	20000309	AU 1999-44533		19990817 <--
JP 2000109457	A	20000418	JP 1999-267612		19990817 <--
US 6521797	B1	20030218	US 1999-376776		19990817 <--
PRIORITY APPLN. INFO.:			EP 1998-115403	A	19980817 <--

OTHER SOURCE(S): MARPAT 132:185260
ED Entered STN: 25 Feb 2000
AB Oxime carboxylic acid derivs. R2R3C:NO2CXnR1 (where n = 1 or 0; X = O or N, R2 and R3 = residues of R2R3C:NOH and R1 = substituted or unsubstituted, branched or unbranched C1-30 alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, alkoxyalkyl, aryloxyaryl, alkoxyaryl, aryloxyalkyl or aromatic radicals, and XnR1 = ONR3R3) are useful as precursors for the delivery of organoleptic compds., especially for flavors, fragrances and masking agents, and/or antimicrobial compds. Thus, octanoic acid 1-bicyclo[2.2.1]hept-5-en-2-ylethanone oxime ester (I) by the treatment of a suspension of sodium caprylate in 200 mL acetone and Et chloroformate with 1-bicyclo[2.2.1]hept-5-en-2-ylethanone oxime. Thus, a deodorant cologne contained I (delayed-release fragrance) 0.5, fragrance 0.5, triclosan 1.0, and alc. to 100%.
IT 20601-38-1, [1,1'-Bicyclohexyl]-4,4'-diol
RL: BUU (Biological use, unclassified); FMU (Formation, unclassified); TEM

(Technical or engineered material use); THU (Therapeutic use); BIOL (Biological study); FORM (Formation, nonpreparative); USES (Uses)
(preparation of oxime carboxylic acid derivs. for delivery of organoleptic and antimicrobial compds.)

RN 20601-38-1 HCAPLUS

CN [1,1'-Bicyclohexyl]-4,4'-diol (CA INDEX NAME)



IC ICM C07C251-62
ICS C07C271-62; A61K007-40; A61K007-48

CC 62-4 (Essential Oils and Cosmetics)
Section cross-reference(s): 17, 23, 63

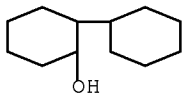
IT 56-81-5, 1,2,3-Propanetriol, biological studies 57-55-6, 1,2-Propanediol, biological studies 60-12-8, 2-Phenylethanol 71-41-0, Amyl alcohol, biological studies 78-70-6, 3,7-Dimethyl-octa-1,6-dien-3-ol 80-54-6 85-91-6 89-83-8, Thymol 91-61-2 93-51-6 93-53-8, 2-Phenylpropanal 95-41-0 97-53-0, Eugenol 97-54-1, Isoeugenol 98-52-2 98-85-1, 1-Phenylethanol 99-49-0, Carvone 100-51-6, Benzyl alcohol, biological studies 102-71-6, biological studies 103-08-2, 5-Ethyl-2-nonanol 103-95-7 104-09-6, 4-Methylphenylacetaldehyde 104-46-1, Anethol 104-50-7 104-54-1, Cinnamic alcohol 104-67-6 105-08-8, 1,4-Cyclohexanedimethanol 105-13-5, Anisic alcohol 106-21-8 106-22-9, Citronellol 106-23-0, 3,7-Dimethyloct-6-enal 106-24-1, Geraniol 106-25-2, cis-3,7-Dimethyl-2-6-octadien-1-ol 106-44-5, biological studies 106-72-9, 2,6-Dimethylhept-5-enal 107-75-5, 3,7-Dimethyl-7-hydroxyoctanal 110-41-8, 2-Methylundecanal 110-93-0, Methyl heptenone 111-27-3, Hexyl alcohol, biological studies 111-46-6, biological studies 111-70-6, Heptyl alcohol 111-71-7, Heptanal 111-75-1 111-87-5, Octyl alcohol, biological studies 112-27-6, Triethyleneglycol 112-30-1, Decyl alcohol 112-31-2, Decanal 112-42-5, Undecyl alcohol 112-43-6, 10-Undecen-1-ol 112-44-7, Undecanal 112-45-8, Undec-10-enal 112-53-8, 1-Dodecanol 112-54-9, Dodecanal 112-72-1, 1-Tetradecanol 116-02-9 120-72-9, 1H-Indole, biological studies 121-32-4, Ethyl vanillin 121-33-5, Vanillin 122-97-4, 3-Phenylpropanol 122-99-6, 2-Phenoxyethanol 124-13-0, Octanal 124-19-6, Nonanal 128-50-7 133-18-6 134-20-3 137-03-1, 2-Heptylcyclopentanone 141-13-9, 2,6,10-Trimethylundec-9-enal 143-08-8, Nonyl alcohol 143-14-6, Undec-9-enal 499-75-2 507-70-0, Borneol 515-00-4 536-60-7 541-91-3, 3-Methylcyclopentadecanone 589-35-5, 3-Methyl-1-pentanol 610-85-5, Glucofuranose 626-93-7, 2-Hexanol 705-86-2 706-14-9 710-04-3 713-95-1 823-22-3 825-51-4, Decahydro-2-naphthol 928-91-6, cis-4-Hexenol 928-96-1, cis-3-Hexenol 1073-11-6 1123-85-9, 2-Phenylpropanol 1205-17-0 1423-46-7 1490-04-6, Menthol 1504-55-8, 2-Methyl-3-phenyl-2-propenol 1632-73-1, Fenchyl alcohol 2041-15-8, 1,3,5-Cyclohexanetriol 2280-44-6, Glucopyranose 2305-05-7 2344-70-9, 4-Phenyl-2-butanol 2550-26-7, Benzylacetone 3391-86-4, Oct-1-en-3-ol 3452-97-9, 3,5,5-Trimethylhexanol 3572-64-3 3720-16-9 4361-23-3, Tetrahydroionol 4395-92-0 4430-31-3 4439-20-7, N,N'-Bis(2-hydroxyethyl)ethylenediamine 4534-70-7 4602-84-0, Farnesol 4621-04-9 5435-64-3, 3,5,5-Trimethylhexanal 5442-00-2 5471-51-2 5502-75-0 5931-17-9 5988-91-0, 3,7-Dimethyloctanal 6347-01-9, D-Fructopyranose 7011-83-8 7149-26-0 7492-67-3 7493-63-2 7779-06-8 7786-44-9,

Nona-2,6-dien-1-ol 7786-67-6, p-Menth-8-en-3-ol 9004-62-0, Hydroxyethylcellulose 9004-64-2, Hydroxypropylcellulose 10247-46-8, D-Fructofuranose 10458-14-7 10486-19-8, Tridecanal 10522-26-6 11072-28-9, Dimethyloctenone 13019-22-2, 9-Decen-1-ol 13254-34-7 13491-79-7 14481-52-8 14765-30-1 16587-71-6, 4-tert-Pentylcyclohexanone 18127-01-0 18479-58-8 19009-56-4, 2-Methyldecanal 19819-98-8 20601-38-1, [1,1'-Bicyclohexyl]-4,4'-diol 25312-34-9, α-Ionol 25634-93-9, 2-Methyl-5-phenylpentanol 26330-64-3, 6-Ethyl-3-methyl-5-octen-1-ol 28231-03-0, Cedrenol 30168-23-1 30390-50-2, Dec-4-enal 31906-04-4 32480-08-3 33673-62-0 33704-61-9 34291-99-1 35854-86-5, cis-6-Nonen-1-ol 37677-14-8 39770-05-3, Dec-9-enal 41890-92-0 43000-45-9, 3-Methylbut-en-1-ol 52908-82-4 54464-57-2 55066-48-3, 3-Methyl-5-phenylpentanol 63500-71-0 63767-86-2 65113-99-7 65405-76-7 65437-70-9 65505-24-0 66068-84-6 67634-11-1 67801-20-1 68039-49-6 68391-29-7, 2,3,5,5-Tetramethylhexanal 68527-77-5 68991-97-9 70214-69-6, 2,5,7-Trimethyloctan-3-ol 70214-77-6, 6,8-Dimethyl-2-nonanol 70788-30-6 70851-61-5 72845-35-3, 2,6-Dimethyloct-5-enal 73398-85-3 79645-28-6 81782-77-6, 4-Methyl-3-decen-5-ol 82373-92-0 92585-24-5, 2-Methyl-4-phenylpentanol 94201-19-1 100428-67-9 125109-85-5 127818-66-0 218958-51-1 218958-54-4 218959-86-5 259210-30-5 259210-31-6 259210-32-7 259210-33-8 259210-34-9 259210-35-0
RL: BUU (Biological use, unclassified); FMU (Formation, unclassified); TEM (Technical or engineered material use); THU (Therapeutic use); BIOL (Biological study); FORM (Formation, nonpreparative); USES (Uses)
(preparation of oxime carboxylic acid derivs. for delivery of organoleptic and antimicrobial compds.)

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 11 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2000:111386 HCAPLUS Full-text
DOCUMENT NUMBER: 132:332075
TITLE: Flavonoids and antimicrobial volatiles from Adhatoda vasica NEES
AUTHOR(S): Ahmed El-Sawi, S.; Abd El-Megeed Hashem, F.; Ali, A. M.
CORPORATE SOURCE: Pharmacognosy Chemistry Medical Plants Dep., National Research Center, Cairo, 12311, Egypt
SOURCE: Pharmaceutical and Pharmacological Letters (1999), 9(2), 52-56
CODEN: PPLEE3; ISSN: 0939-9488
PUBLISHER: Medpharm Scientific Publishers
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 16 Feb 2000
AB The Et acetate extract of Adhatoda vasica Nees leaves and flowers was rich in flavonoids, out of which 5 glycosides and an aglycon were isolated and identified. These are vitexin, isovitexin, 2''-O-xylosylvitexin, rhamnosylvitexin, violanthin, and apigenin. Volatiles of leaves and flowers were also investigated. Flower volatiles are composed of 36 compds., the major 27 compds. were identified amounting to 95% of the total volatiles. The major compound was a ketone identified as 4-heptanone, 3methyl-. Leaf volatiles were a complex mixture with more than 50 compds., among these 27 compds. were identified comprising 82% of the total leaf volatiles. The major component was the hydrocarbon decane. Both, leaf and flower volatiles showed higher antimicrobial activity against bacteria and yeast more than fungi.
IT 6531-86-8, 2-Cyclohexylcyclohexanol
RL: BOC (Biological occurrence); BSU (Biological study, unclassified);

BIOL (Biological study); OCCU (Occurrence)
(flavonoids and antimicrobial volatiles from Adhatoda vasica NEES)
RN 6531-86-8 HCAPLUS
CN [1,1'-Bicyclohexyl]-2-ol (CA INDEX NAME)



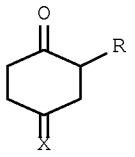
CC 11-1 (Plant Biochemistry)
Section cross-reference(s): 10, 62
IT 57-10-3, Hexadecanoic acid, biological studies 57-11-4, Octadecanoic acid, biological studies 79-77-6, β-Ionone 84-74-2, Dibutyl phthalate 93-28-7 93-29-8 97-53-0, Eugenol 106-23-0, Citronellal 112-31-2, Decanal 112-40-3, Dodecane 120-61-6, 1,4-Benzenedicarboxylic acid, dimethyl ester 124-18-5, Decane 131-11-3 150-86-7, Phytol 465-31-6, Camphene hydrate 483-78-3, Cadalene 493-01-6, cis-Decahydronaphthalene 501-19-9 520-36-5, Apigenin 541-85-5, 5-Methyl-3-heptanone 544-63-8, Tetradecanoic acid, biological studies 593-49-7, Heptacosane 628-97-7, Hexadecanoic acid, ethyl ester 629-62-9, Pentadecane 629-94-7, Heneicosane 629-97-0, Docosane 629-99-2, Pentacosane 638-67-5, Tricosane 646-31-1, Tetracosane 996-12-3, 2,2-Dimethylhexanal 1120-21-4, Undecane 1560-97-0, Dodecane, 2-methyl- 3681-93-4, Vitexin 4130-42-1, 2,6-Bis(1,1-dimethylethyl)-4-ethylphenol 5129-60-2, 14-Methylpentadecanoic acid, methyl ester 5932-68-3 6531-86-8, 2-Cyclohexylcyclohexanol 10576-86-0, 2''-O-Xylosylvitexin 13215-88-8, Megastigmatrienone 15726-15-5, 4-Heptanone, 3-methyl- 18720-66-6, 6-Methyl-3-heptanol 19784-98-6 25378-22-7, Dodecene 26560-14-5, 1,3,6,10-Dodecatetraene, 3,7,11-trimethyl-, (Z,E)- 31389-11-4, Pentadecanol 38953-85-4, Isovitexin 51655-64-2, 3-Methylene-nonane 64820-99-1, 2''-O-Rhamnosylvitexin 74663-91-5, Cyclopropane, 1-Heptyl-2-methyl- 76940-91-5, Pentadecanone 87531-87-1, 6,10,14-Trimethylpentadecanone 268218-79-7
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
(flavonoids and antimicrobial volatiles from Adhatoda vasica NEES)
REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 12 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1999:819041 HCAPLUS Full-text
DOCUMENT NUMBER: 132:54612
TITLE: Aldehydic ketones and their use in perfumes
INVENTOR(S): Swift, Karl Andrew Dean
PATENT ASSIGNEE(S): Quest International B.V., Neth.
SOURCE: Eur. Pat. Appl., 13 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

EP 967195	A1	19991229	EP 1999-106931	19990318 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9901348	A	20000502	BR 1999-1348	19990329 <--
JP 2000063318	A	20000229	JP 1999-88689	19990330 <--
US 6448220	B1	20020910	US 1999-280450	19990330 <--

PRIORITY APPLN. INFO.: EP 1998-302422 A 19980330 <--
OTHER SOURCE(S): MARPAT 132:54612
ED Entered STN: 30 Dec 1999
GI

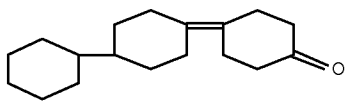


I

AB The novel ketones I in which R is H or an alkyl group and X is a hydrocarbon group having between 4 and 12 carbon atoms, the ring being saturated or unsatd., excluding 4-(1-ethylpropylidene)-1-cyclohexanone, 4-cyclohexylidene-1-cyclohexanone, 4-butylidene-1-cyclohex-2-enone, 4-(1-ethylpropylidene)-1-cyclohex-2-enone, 4-(2-methylpropylidene)-1- cyclohexanone,4-cyclohexylidene-2-cyclohexen-1-one, 4-(1,5-dimethyl-4- hexenylidene)-1-cyclohexanone, 4-[4-(cyclohexylidene)cyclohexylidene]-1- cyclohexanone, 4-[4-(tert-butyl)cyclohexylidene]-1-cyclohexanone, 4-[4-(cyclohexyl)cyclohexylidene]-1-cyclohexanone, 4-(2-isopropyl-5- methylcyclohexylidene)-2-cyclohexen-1-one and 4-(3-phenylpropylidene)-1- cyclohex-2-enone exhibit interesting odor characteristics, generally aldehydic in nature, and so find use in perfumes and in perfumed products. Thus, (4-hexylidene-1-cyclohexanone) was prepared by the reaction of n-hexyltriphenylphosponium bromide with cyclohexane-1,4-dione monoethylene ketal by Wittig reaction.

IT 112649-02-2P
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(aldehydic ketones and their use in perfumes)

RN 112649-02-2 HCAPLUS
CN Cyclohexanone, 4-[1,1'-bicyclohexyl]-4-ylidene- (CA INDEX NAME)

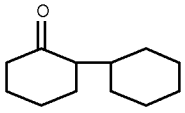


IC ICM C07C049-647
ICS C07C049-683; C07C049-653; C07C045-59; C07C403-16; C11B009-00; A61K007-46

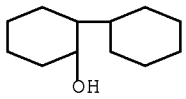
CC 62-5 (Essential Oils and Cosmetics)

Section cross-reference(s): 24
IT 58193-73-0P 66336-41-2P 66405-57-0P 91253-57-5P 91967-63-4P
112649-02-2P 148254-75-5P 169822-47-3P 169822-50-8P
250234-86-7P 250234-89-0P 252938-78-6P 252938-80-0P 252938-81-1P
252942-82-8P
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(aldehydic ketones and their use in perfumes)
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 13 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1998:248997 HCAPLUS Full-text
DOCUMENT NUMBER: 129:39036
TITLE: Structure-minty odor relationships: suggestion of an interaction pattern
AUTHOR(S): Chastrette, Maurice; Rallet, Emanuelle
CORPORATE SOURCE: Lab. Chim. Org. Phys. Synth., Univ. Claude Bernard Lyon I, Villeurbanne, 69622, Fr.
SOURCE: Flavour and Fragrance Journal (1998), 13(1), 5-18
CODEN: FFJOED; ISSN: 0882-5734
PUBLISHER: John Wiley & Sons Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 02 May 1998
AB Structure-odor relationships for the minty note were studied using a set of 150 compds. (68 minty and 82 not minty) with known olfactory descriptions and chemical structures. The study was based on the HBD (hydrogen bonding and dispersion) theory which considers that interactions involving mols. and receptor sites are mainly hydrogen bonds and dispersion forces. All the compds. of the set were examined and a combination of direct comparisons and chi-square tests allowed identification of relevant structural elements for the minty note. Twenty-four compds. (8 menthol isomers, 4 menthone isomers and 12 carveol and carvone derivs.) were chosen for their very precise olfactory description and because they constitute 12 enantiomeric pairs. Their low-energy conformations were computed using the Sybyl force field. Super-impositions on reference compds. of the likely conformations of each enantiomer were made using the Sybyl package, taking into account relevant structural elements previously identified. These comparisons showed that substituents in minty compds. must meet precise geometrical requirements and that, in spite of differences of location and nature for the functional oxygen group, they can receive a hydrogen bond from the same hypothetical atom of the receptor sites. Finally, from these structural and geometrical characteristics, an interaction pattern was proposed for the minty odor.
IT 90-42-6, [1,1'-Bicyclohexyl]-2-one 6531-86-8, [1,1'-Bicyclohexyl]-2-ol
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(structure-minty odor relationships of terpenoid compds.)
RN 90-42-6 HCAPLUS
CN [1,1'-Bicyclohexyl]-2-one (CA INDEX NAME)



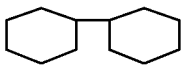
RN 6531-86-8 HCAPLUS
CN [1,1'-Bicyclohexyl]-2-ol (CA INDEX NAME)



CC 13-1 (Mammalian Biochemistry)
Section cross-reference(s): 22, 62
IT 89-49-6 89-81-6 89-83-8 90-42-6, [1,1'-Bicyclohexyl]-2-one
94-66-6 96-07-1 97-42-7 97-45-0 99-49-0, Carvone 106-22-9,
Citronellol 106-23-0, Citronellal 471-16-9, Sabinol 491-09-8
494-90-6, Menthofuran 498-71-5, Pinol hydrate 499-71-8 513-23-5
529-00-0 529-01-1 529-02-2 546-80-5, Thujone 547-60-4,
Pinocamphone 583-59-5 583-60-8 591-23-1 591-24-2 619-02-3
938-68-1 1004-77-9 1193-46-0 1196-31-2 1728-46-7 1754-00-3
1946-00-5 2102-58-1 2216-51-5 2216-52-6 2230-90-2 2244-16-8
3391-87-5 3858-43-3 3858-47-7 4423-94-3 4668-64-8 5277-36-1
5392-40-5, Citral 5524-05-0 6050-34-6 6485-40-1 6531-86-8,
[1,1'-Bicyclohexyl]-2-ol 6909-25-7 7214-02-0 7460-78-8 7786-67-6
10588-15-5 13491-79-7 13537-52-5 13537-55-8 14073-97-3
14845-55-7, 2-Isopropylcyclopentanone 15356-60-2 15932-80-6
16178-87-3 16409-45-3 18309-28-9 18383-51-2 20747-49-3
20752-33-4 20752-34-5 22472-56-6 23283-97-8 24545-81-1,
Umbellulone 25465-95-6, Pinocampheol 26127-86-6 26409-76-7
31269-74-6 33375-08-5 35736-66-4 35736-68-6 36040-02-5
36300-10-4 39903-97-4 39903-98-5 50682-96-7 50910-63-9
51313-97-4 53771-87-2 53796-79-5 53892-46-9 54432-00-7
54735-47-6 55449-13-3 57129-19-8 58191-81-4 59471-80-6
64141-34-0 64282-88-8 71436-86-7 74036-19-4 78829-27-3
80124-30-7 82898-51-9 92729-22-1 94003-09-5 113889-38-6
115724-29-3 116530-93-9 119479-39-9 139896-03-0 148118-81-4
157915-87-2 157915-90-7 157915-94-1 157915-96-3 157915-98-5
157915-99-6 157916-09-1 157916-11-5 184178-98-1 208397-62-0
208397-63-1 208397-64-2 208397-65-3 208397-66-4 208397-67-5
208397-68-6 208397-69-7 208397-70-0 208397-71-1 208397-72-2
208397-73-3 208397-74-4 208397-75-5 208397-76-6 208397-77-7
208397-78-8 208397-79-9 208397-80-2 208397-81-3 208397-82-4
208397-83-5 208397-84-6 208397-85-7 208397-86-8 208397-87-9
208397-88-0 208397-89-1 208397-90-4 208397-91-5 208397-92-6
208397-93-7
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(structure-minty odor relationships of terpenoid compds.)
REFERENCE COUNT: 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 14 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1997:110035 HCAPLUS Full-text
DOCUMENT NUMBER: 126:203541
TITLE: Gas chromatography-mass spectrometry coupled with pseudo-Sadtler retention indices, for the identification of components in the essential oil of

Curcuma longa L.
AUTHOR(S): Richmond, R.; Pombo-Villar, E.
CORPORATE SOURCE: Structural and Analytical Chemistry Group, Preclinical Research Department, Sandoz Pharma AG, CH-4002, Basel, Switz.
SOURCE: Journal of Chromatography, A (1997), 760(2), 303-308
CODEN: JCRAEY; ISSN: 0021-9673
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 15 Feb 1997
AB Gas chromatog.-mass spectrometry was applied to the cyclohexane extract of C. longa. The chromatog. conditions generated retention indexes very close, i.e., >99.9%, to those reported for structures in the Sadtler Standard Gas Chromatog. Retention Index Library. In addition to the extensively reported sesquiterpene ketones, this essential oil extract contained a series of saturated and unsatd. fatty acids. Wiley mass spectra library matching for the free fatty acids, their trimethylsilyl esters and Me esters narrowed their identity down to a few candidates. Combining this information with the retention indexes of the fatty acid Me esters in the Sadtler library allowed the identification of some of the double bond positions.
IT 92-51-3, 1,1'-Bicyclohexyl
RL: ANT (Analyte); BOC (Biological occurrence); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence)
(gas chromatog.-mass spectrometry coupled with retention indexes in Curcuma longa oil anal.)
RN 92-51-3 HCAPLUS
CN 1,1'-Bicyclohexyl (CA INDEX NAME)



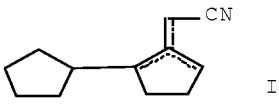
CC 62-2 (Essential Oils and Cosmetics)
Section cross-reference(s): 11
IT 57-10-3, Hexadecanoic acid, biological studies 57-11-4, Octadecanoic acid, biological studies 60-33-3, 9,12-Octadecadienoic acid (Z,Z)-, biological studies 92-51-3, 1,1'-Bicyclohexyl 112-79-8, trans-9-Octadecenoic acid 112-80-1, cis-9-Octadecenoic acid, biological studies 124-10-7, Methyl tetradecanoate 373-49-9, (Z)-9-Hexadecenoic acid 471-05-6, Zerumbone 495-60-3, α-Zingiberene 495-61-4, β-Bisabolene 506-30-9, Eicosanoic acid 544-63-8, Tetradecanoic acid, biological studies 644-30-4, α-Curcumene 2271-34-3, 11-Hexadecenoic acid 20307-83-9, β-Sesquiphellandrene 28984-77-2, Octadecadienoic acid 61432-71-1, 1-Bisabolone
RL: ANT (Analyte); BOC (Biological occurrence); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence)
(gas chromatog.-mass spectrometry coupled with retention indexes in Curcuma longa oil anal.)

L19 ANSWER 15 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1993:80538 HCAPLUS Full-text

DOCUMENT NUMBER: 118:80538
TITLE: Preparation of (cyanomethyl)cyclopentylcyclopentenes and (cyanomethylene)dicyclopentyl as odorous substances
INVENTOR(S): Hopp, Rudolf; Thielmann, Thomas; Goettsch, Wilhelm
PATENT ASSIGNEE(S): Haarmann und Reimer G.m.b.H., Germany
SOURCE: Eur. Pat. Appl., 10 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 508258	A1	19921014	EP 1992-105444	19920330 <--
R: CH, DE, FR, GB, IT, LI, NL				
DE 4111902	A1	19921015	DE 1991-4111902	19910412 <--
US 5212153	A	19930518	US 1992-862043	19920402 <--
JP 05140071	A	19930608	JP 1992-112342	19920406 <--

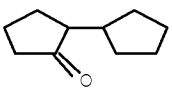
PRIORITY APPLN. INFO.: DE 1991-4111902 A 19910412 <--
OTHER SOURCE(S): CASREACT 118:80538; MARPAT 118:80538
ED Entered STN: 02 Mar 1993
GI



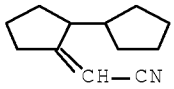
I

AB Title compds. (I 1 dotted line = double bond, others = single bonds), were prepared Thus, 2-cyclopentylcyclopentanone, NCCH2CO2H, NH4OAc, and xylene were refluxed 6 h with separation of H2O to give a 70% yield of a mixture of 1-cyanomethyl-5-cyclopentylcyclopent-1-ene 73.5, 1-cyanomethyl-2-cyclopentylcyclopent-1-ene 21.2, and 2-cyanomethylenedicyclopentyl 3.7%. I have a very strong, fresh sea odor and are useful in odorous compns.

IT 4884-24-6, 2-Cyclopentylcyclopentanone
RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation of, with cyanoacetate)
RN 4884-24-6 HCAPLUS
CN [1,1'-Bicyclopentyl]-2-one (CA INDEX NAME)



IT 145547-51-9P, 2-Cyanomethylenedicyclopentyl
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as odorous substance)
RN 145547-51-9 HCAPLUS
CN Acetonitrile, [1,1'-bicyclopentyl]-2-ylidene- (9CI) (CA INDEX NAME)

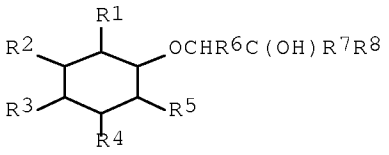


IC ICM C07C255-31
ICS C11B009-00
CC 24-4 (Alicyclic Compounds)
Section cross-reference(s): 62
IT 4884-24-6, 2-Cyclopentylcyclopentanone
RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation of, with cyanoacetate)
IT 145547-49-5P, 1-Cyanomethyl-5-cyclopentylcyclopent-1-ene 145547-50-8P, 1-Cyanomethyl-2-cyclopentylcyclopent-1-ene 145547-51-9P, 2-Cyanomethylenedicyclopentyl
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as odorous substance)

L19 ANSWER 16 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1992:151219 HCAPLUS Full-text
DOCUMENT NUMBER: 116:151219
TITLE: Preparation of α-(alkylcyclohexyloxy)-β-alkanols for perfumes
INVENTOR(S): Koshino, Junji; Fujikura, Yoshiaki; Toi, Nao; Yuki, Rieko; Miyabe, Hajime
PATENT ASSIGNEE(S): Kao Corp., Japan
SOURCE: Eur. Pat. Appl., 18 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE	
EP 467290	A2	19920122	EP 1991-111841		19910716	<--
EP 467290	A3	19930609				
EP 467290	B1	19951011				
R: DE, ES, FR, GB, IT						
JP 04217937	A	19920807	JP 1991-72648		19910405	<--
JP 07072150	B	19950802				
IN 180513	A1	19980214	IN 1991-DE565		19910627	<--
US 5194423	A	19930316	US 1991-723400		19910628	<--
ES 2080859	T3	19960216	ES 1991-111841		19910716	<--
CN 1058389	A	19920205	CN 1991-104908		19910718	<--
CN 1034277	B	19970319				
IN 1996DE02049	A	20060127	IN 1996-DE2049		19960918	<--
PRIORITY APPLN. INFO.:			JP 1990-187853	A	19900718	<--
			JP 1991-72648	A	19910405	<--
			IN 1991-DE565	A3	19910627	<--

OTHER SOURCE(S): MARPAT 116:151219
ED Entered STN: 17 Apr 1992
GI



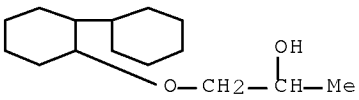
I

AB Title compds. I [at least one of R1-R5 = CR9R10R11 and the others are H, Me; R9, R10 = C1-4 alkyl or CR9R10 = cycloalkyl; R11 = C1-4 alkyl or R11 = H when CR9R10 = cycloalkyl; R6, R7, R8 = H, C1-6 alkyl] were prepared for perfume compns. Thus, 2-tert-butylcyclohexanol in THF was treated with NaH, then 1,2-butylene oxide was added and the solution was refluxed for 48 h to give 1-(2-tert-butylcyclohexyloxy)-2-butanol (II) in 55% yield. II was used in a perfume composition

IT 139504-80-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as perfume component)

RN 139504-80-6 HCAPLUS

CN 2-Propanol, 1-([1,1'-bicyclohexyl]-2-yloxy)- (CA INDEX NAME)

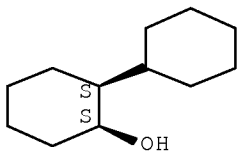


IT 51175-62-3 58879-21-3, trans-2-Cyclohexylcyclohexanol
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with propylene oxide, in preparation of perfumes)

RN 51175-62-3 HCAPLUS

CN [1,1'-Bicyclohexyl]-2-ol, (1R,2R)-rel- (CA INDEX NAME)

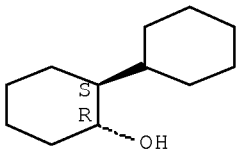
Relative stereochemistry.



RN 58879-21-3 HCAPLUS

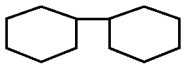
CN [1,1'-Bicyclohexyl]-2-ol, (1R,2S)-rel- (CA INDEX NAME)

Relative stereochemistry.



IC ICM C07C043-196
ICS C07C041-03
CC 24-5 (Alicyclic Compounds)
Section cross-reference(s): 62
IT 139504-67-9P 139504-68-0P 139504-69-1P 139504-70-4P 139504-71-5P
139504-72-6P 139504-73-7P 139504-74-8P 139504-75-9P 139504-76-0P
139504-77-1P 139504-78-2P 139504-79-3P 139504-80-6P
139504-81-7P 139504-82-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as perfume component)
IT 2078-54-8, 2,6-Diisopropylphenol 5448-22-6, trans-2-tert-Butylcyclohexanol 7214-18-8, cis-2-tert-Butylcyclohexanol 10488-10-5, cis-3-tert-Butylcyclohexanol 16201-66-4, trans-3-tert-Butylcyclohexanol 51175-62-3 58879-21-3, trans-2-Cyclohexylcyclohexanol
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with propylene oxide, in preparation of perfumes)

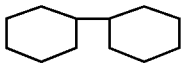
L19 ANSWER 17 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1991:171111 HCAPLUS Full-text
DOCUMENT NUMBER: 114:171111
ORIGINAL REFERENCE NO.: 114:28773a,28776a
TITLE: GC-MS analysis of essential oil from flowers of Lonicera japonica Thunb
AUTHOR(S): Ji, Li; Pan, Qiongguang; Xu, Zhiling
CORPORATE SOURCE: Inst. Chin. Mater. Med., Chin. Acad. Trad. Chin. Med., Beijing, 100700, Peop. Rep. China
SOURCE: Zhongguo Zhongyao Zazhi (1990), 15(11), 680-2
CODEN: ZZZAE3; ISSN: 1001-5302
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
ED Entered STN: 03 May 1991
AB Forty-seven components of the essential oils from L. japonica flowers (used as drugs) were determined by GC-mass spectra.
IT 92-51-3, 1,1'-Bicyclohexyl
RL: BIOL (Biological study)
(of Lonicera japonica flower oils, gas chromatog.-mass spectrometry of)
RN 92-51-3 HCAPLUS
CN 1,1'-Bicyclohexyl (CA INDEX NAME)



CC 63-4 (Pharmaceuticals)
Section cross-reference(s): 62, 64

IT 60-12-8, Phenethyl alcohol 78-70-6, Linalool 84-74-2, Dibutyl phthalate 92-51-3, 1,1'-Bicyclohexyl 98-01-1, 2-Furaldehyde, biological studies 98-55-5, α-Terpineol 100-51-6, Benzyl alcohol, biological studies 100-52-7, Benzaldehyde, biological studies 106-24-1, Geraniol 106-25-2, Nerol 106-28-5, trans-trans-Farnesol 109-52-4, Pentanoic acid, biological studies 111-27-3, 1-Hexanol, biological studies 112-39-0, Methyl palmitate 112-63-0, Methyl linoleate 116-53-0, 2-Methylbutanoic acid 120-51-4, Benzyl benzoate 122-78-1, Phenylacetaldehyde 137-32-6, 2-Methyl-1-butanol 140-29-4, Benzyl cyanide 142-62-1, Hexanoic acid, biological studies 483-76-1, δ-Cadinene 543-49-7, 2-Heptanol 628-97-7, Ethyl palmitate 639-99-6, Elemol 928-96-1 1121-55-7, 3-Vinylpyridine 1191-41-9, Ethyl linolenate 2922-51-2, 2-Heptadecanone 3790-71-4, cis-trans-Farnesol 3856-25-5, Copaene 7212-44-4, Nerolidol 10208-80-7, α-Muurolene 11063-77-7, cis-Linalool oxide 11063-78-8, trans-Linalool oxide 13744-15-5, β-Cubebene 14049-11-7 18185-81-4, 3-Octen-1-ol 19317-11-4, Farnesal 23696-85-7 29548-30-9, Farnesyl acetate 30021-74-0, γ-Muurolene 33880-83-0, β-Elemene 39029-41-9, γ-Cadinene 51411-24-6, 2,3-Dihydro-farnesol 53398-87-1, cis-3-Hexenyl trans-2-hexenoate 133352-42-8
RL: BIOL (Biological study)
(of Lonicera japonica flower oils, gas chromatog.-mass spectrometry of)

L19 ANSWER 18 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1990:538301 HCAPLUS Full-text
DOCUMENT NUMBER: 113:138301
ORIGINAL REFERENCE NO.: 113:23389a,23392a
TITLE: Chemical constituents from Parmelia tinctorum
AUTHOR(S): Ding, Zhihui; Ding, Jingkai; Lou, Jiafeng; Zhang, Guang
CORPORATE SOURCE: Kunming Inst. Bot., Acad. Sin., Kunming, Peop. Rep. China
SOURCE: Yunnan Zhiwu Yanjiu (1990), 12(1), 99-106
CODEN: YCWCDP; ISSN: 0253-2700
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
ED Entered STN: 13 Oct 1990
AB Nine compds., atranorin, chloratranorin, lecanoric acid, Et orsellinate, orsellinic acid, Me β-orcinolcarboxylate, divaricatinic acid, divaricatic acid, and Me hematommate were isolated from P. tinctorum. Their structures were determined by the spectral data anal. The essential oil and concrete from P. tinctorum were analyzed individually by gas chromatog. and mass spectrometry. Thirty-seven compds. were identified quant. and qual. in the concrete, the main compds. are Et hematommate, Me β-orcinolcarboxylate and Et orsellinate. Forty-seven compds. were determined in the essential oil. Based on the above mentioned results, P. tinctorum can be used as a good perfumery material.
IT 92-51-3P, 1,1'-Bicyclohexyl
RL: PREP (Preparation)
(from Parmelia tinctorum concrete)
RN 92-51-3 HCAPLUS
CN 1,1'-Bicyclohexyl (CA INDEX NAME)

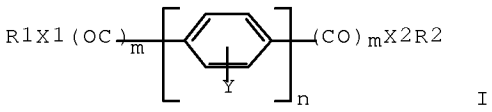


CC 62-2 (Essential Oils and Cosmetics)
Section cross-reference(s): 11
IT 111-27-3P, 1-Hexanol, biological studies 80-57-9P 92-51-3P, 1,1'-Bicyclohexyl 121-98-2P, Methyl p-methoxybenzoate 123-66-0P, Ethyl caproate 500-66-3P 504-15-4P, Orcinol 638-66-4P, Octadecanal 696-29-7P, Isopropylcyclohexane 2524-37-0P, Ethyl orsellinate 2867-05-2P, α-Thujene 3187-58-4P, Methyl orsellinate 3209-13-0P 4179-19-5P, 3,5-Dimethoxytoluene 4707-47-5P, Methyl β-orcinol carboxylate 5947-36-4P 19104-04-2P, Methyl rhizonate 34874-90-3P, Methyl hematommate 38862-65-6P, Ethyl 2,4-dihydroxy-6-pentylbenzoate 39503-14-5P, Ethyl hematommate 41114-00-5P, Ethyl pentadecanoate 41408-15-5P 51903-92-5P, 2-Chloro-3,5-dimethoxytoluene 53530-16-8P 53530-26-0P, Ethyl divaricatinate 57074-20-1P 58016-28-7P, Methyl 2,4-dihydroxy-6-pentylbenzoate 129601-91-8P
RL: BIOL (Biological study); PREP (Preparation)
(from Parmelia tinctorum concrete)

L19 ANSWER 19 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1990:488364 HCAPLUS Full-text
DOCUMENT NUMBER: 113:88364
ORIGINAL REFERENCE NO.: 113:14735a,14738a
TITLE: Thermochromic liquid-crystal phases and devices and cosmetics containing them
INVENTOR(S): Coates, David; Sage, Ian Charles; Jenner, John Anthony
PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Germany
SOURCE: PCT Int. Appl., 37 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 9002161	A1	19900308	WO 1989-EP965		19890816 <--
W: JP, KR, US					
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE					
EP 386198	A1	19900912	EP 1989-909390		19890816 <--
EP 386198	B1	19931013			
R: CH, DE, FR, GB, IT, LI, NL					
JP 03501498	T	19910404	JP 1989-508706		19890816 <--
US 5188815	A	19930223	US 1989-424264		19891004 <--
PRIORITY APPLN. INFO.:			GB 1988-20581	A	19880831 <--
			GB 1989-598	A	19890111 <--
			WO 1989-EP965	W	19890816 <--

OTHER SOURCE(S): MARPAT 113:88364
ED Entered STN: 01 Sep 1990
GI



I

AB The phases have ≥2 components, ≥1 of which is an optically active compound of formula I, where R1, R2 = chiral residue imparting to the phases a tight helical twist; Y = H or F; X1, X2 = O or NH; n = 1-3; and m = 0 or 1. The phases can be used in electrooptical devices, temperature indicators, and cosmetics.

IT 128443-07-2
RL: USES (Uses)
(thermochromic liquid crystal composition)

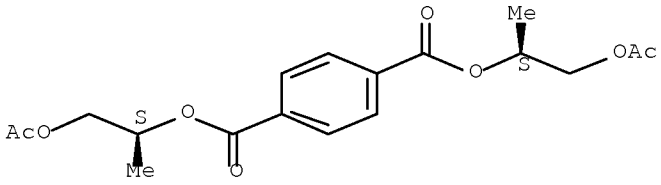
RN 128443-07-2 HCAPLUS

CN 1,4-Benzenedicarboxylic acid, bis[2-(acetyloxy)-1-methylethyl] ester, [S-(R*,R*)]-, mixt. with [trans(trans)]-4'-butyl[1,1'-bicyclohexyl]-4-carbonitrile, [trans(trans)]-4'-ethyl[1,1'-bicyclohexyl]-4-carbonitrile, [trans(trans)]-4'-heptyl[1,1'-bicyclohexyl]-4-carbonitrile and [trans(trans)]-4'-propyl[1,1'-bicyclohexyl]-4-carbonitrile (9CI) (CA INDEX NAME)

CM 1

CRN 128374-47-0
CMF C18 H22 O8

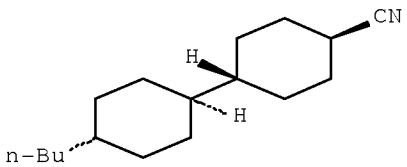
Absolute stereochemistry.



CM 2

CRN 70784-10-0
CMF C17 H29 N

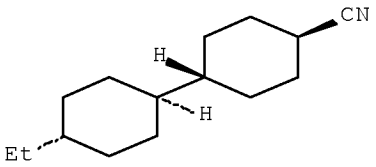
Relative stereochemistry.



CM 3

CRN 70784-09-7
CMF C15 H25 N

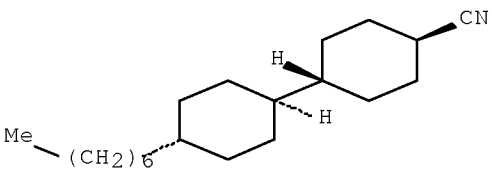
Relative stereochemistry.



CM 4

CRN 65355-37-5
CMF C20 H35 N

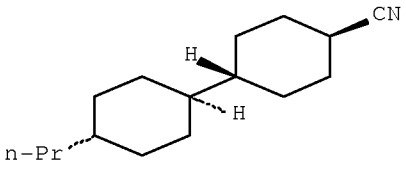
Relative stereochemistry.



CM 5

CRN 65355-35-3
CMF C16 H27 N

Relative stereochemistry.



IC ICM C09K019-06
ICS C09K019-12; C09K019-30; A61K007-021; C07C069-82
CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 47, 62, 75

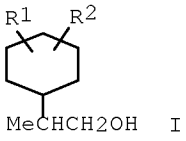
IT Cosmetics
(thermochromic liquid crystal mixts. for)

IT 63748-28-7 128374-42-5 128374-43-6 128374-44-7 128374-45-8
128374-46-9 128374-48-1 128374-49-2 128374-51-6 128398-69-6
128398-70-9 128398-71-0 128420-48-4 128443-06-1 128443-07-2
RL: USES (Uses)
(thermochromic liquid crystal composition)

L19 ANSWER 20 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1990:204496 HCAPLUS Full-text
DOCUMENT NUMBER: 112:204496
ORIGINAL REFERENCE NO.: 112:34459a,34462a
TITLE: 2-(alkyl-cyclohexyl)-1-propanols, a process for preparing the same, and perfumery compositions containing them
INVENTOR(S): Fujikura, Yoshiaki; Ohnuma, Hiroaki; Fujita, Manabu; Toi, Nao
PATENT ASSIGNEE(S): Kao Corp., Japan
SOURCE: Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 328116	A1	19890816	EP 1989-102259	19890209 <--
EP 328116	B1	19930407		
R: CH, DE, FR, GB, LI, NL				
JP 01207251	A	19890821	JP 1988-29937	19880210 <--
US 5104851	A	19920414	US 1991-646450	19910125 <--
PRIORITY APPLN. INFO.:			JP 1988-29937 A	19880210 <--
			US 1989-307969 B1	19890209 <--

OTHER SOURCE(S): MARPAT 112:204496
ED Entered STN: 26 May 1990
GI



I

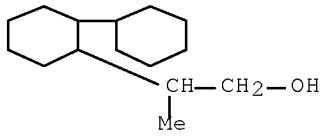
AB Title compds. I (R1,R2 = Me, Et, Pr, Me2CH, Me3C, EtMeCH when total C of R1 and R2 is 4-7); when either R1 or R2 is H, the other being cyclohexyl; R1R2 with 2 C in the cyclohexane ring hexamethylene ring) possess a woody, floral-like odor, and can be used in perfumes, soaps, shampoos, etc. They are prepared by reaction of an aromatic compound with C6H6O in the presence of a Lewis acid, and then hydrogenation of the aromatic alc. A mixture of 2-(2,4-diisopropyl-1-cyclohexyl)-1-propanol and 2-(3,5-diisopropyl-1- cyclohexyl)-1-propanol was prepared by reaction of m-diisopropylbenzene with C6H6O at -50°

in the presence at AlCl3 213 g and CH2Cl2 200 mL, followed by hydrogenation of the alc. distillate over Ru-C catalyst at a H2 pressure at 100 kg/cm2 and a temperature of 150° for 10 days. To prepare a perfume for an herbal shampoo, 100 weight parts of the above alcs. were mixed with 900 weight parts of a composition comprising lemon oil California 100, orange oil Valencia 50, lavender oil Mont Blanc 40/42 40, peppermint oil Mitwestscotti 10, cis-3-hexenyl acetate 1, cis-3-hexenol 2, p-tert-butylcyclohexyl acetate 30, geraniol extra 100, citronellol extra 40, PhCH2CH2OH 100, Lilial 30, Lyral 2, 4-acetoxy-3-pentyltetrahydropyran 20, hexylcinnamic aldehyde 235, Galaxolide 50 DEP 60, benzoin resinoide 20, vanillin 1, vetiver oil Java 10, and raspberry ketone 1 weight %.

IT 126972-27-8P 126972-28-9P
RL: PREP (Preparation)
(preparation of, as fragrance)

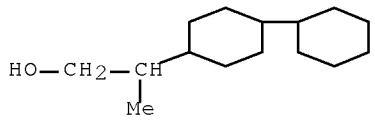
RN 126972-27-8 HCAPLUS

CN [1,1'-Bicyclohexyl]-2-ethanol, β-methyl- (CA INDEX NAME)



RN 126972-28-9 HCAPLUS

CN [1,1'-Bicyclohexyl]-4-ethanol, β-methyl- (CA INDEX NAME)



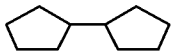
IC ICM C07C031-135
ICS C07C031-13; C07C031-137; C07C029-19; A61K007-46

CC 62-5 (Essential Oils and Cosmetics)
Section cross-reference(s): 24

IT 126972-21-2P 126972-22-3P 126972-23-4P 126972-24-5P 126972-25-6P
126972-27-8P 126972-28-9P
RL: PREP (Preparation)
(preparation of, as fragrance)

L19 ANSWER 21 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1988:596881 HCAPLUS Full-text
DOCUMENT NUMBER: 109:196881
ORIGINAL REFERENCE NO.: 109:32481a,32484a
TITLE: Studies on the constituents of the essential oils from Amomum and Alpinia species
AUTHOR(S): Ji, Xiaduo; Pu, Quanlong; Fang, Ding; He, Zhenxing; Gui, Xiaoming
CORPORATE SOURCE: Guangxi Inst. Traditional Med. Pharm. Sci., Nanning, Peop. Rep. China
SOURCE: Developments in Food Science (1988),

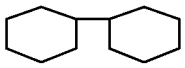
18(Flavors Fragrances), 333-41
CODEN: DFSCDX; ISSN: 0167-4501
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 25 Nov 1988
AB The essential oils of Amomum and Alpinia plants were investigated by a combination of the normal techniques such as fractional distillation, column chromatog., capillary gas chromatog. and gas chromatog.-mass spectrometry. In these analyses, a number of constituents were isolated and identified. The differences between the species, between the origin of the plants as well as the differences between the fruit and the leaves of one of the species are discussed.
IT 1636-39-1, Cyclopentylcyclopentane
RL: BIOL (Biological study)
(of Amomum ptycholimatum oil)
RN 1636-39-1 HCAPLUS
CN 1,1'-Bicyclopentyl (CA INDEX NAME)



CC 62-2 (Essential Oils and Cosmetics)
Section cross-reference(s): 11
IT 112-44-7, Undecanal 294-62-2, Cyclododecane 544-12-7, 3-Hexen-1-ol 1577-52-2, 9,12-Octadecadien-1-ol 1636-39-1, Cyclopentylcyclopentane 4826-62-4, 2-Dodecenal 6765-39-5, 1-Heptadecene 16778-27-1 41670-48-8
RL: BIOL (Biological study)
(of Amomum ptycholimatum oil)

L19 ANSWER 22 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1987:604891 HCAPLUS Full-text
DOCUMENT NUMBER: 107:204891
ORIGINAL REFERENCE NO.: 107:32799a,32802a
TITLE: Aromatic plants of Saudi Arabia - part 8 - GC/MS analysis of essential oils of Pulicaria arabica and P. undulata
AUTHOR(S): Mossa, J. S.; Hifnawy, M. S.; Al-Yahya, M. A.; Al-Mesha, I. A.; Mekkawi, A. G.
CORPORATE SOURCE: Coll. Pharm., King Saud Univ., Riyadh, 11451, Saudi Arabia
SOURCE: International Journal of Crude Drug Research (1987), 25(2), 113-19
CODEN: IJCREE; ISSN: 0167-7314
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 27 Nov 1987
AB The composition of the steam distilled oils of the fresh aerial parts of P. arabica and P. undulata was investigated by coupled gas chromatog.-mass spectrometry (GC-MS). Based on comparing the resultant mass spectra with available stds. as well as with those delivered by the electronic data system attached to the apparatus and with reported data, many volatile components of the 2 species could be identified and compared. The oil of P. arabica is characterized by the presence of high percentage of sesquiterpene hydrocarbons and alcs., while that of P. undulata is rich in phenolic compds. and monoterpene hydrocarbons and comparatively low in sesquiterpene hydrocarbons.

IT 92-51-3
RL: BIOL (Biological study)
(of Pulicaria oils)
RN 92-51-3 HCAPLUS
CN 1,1'-Bicyclohexyl (CA INDEX NAME)

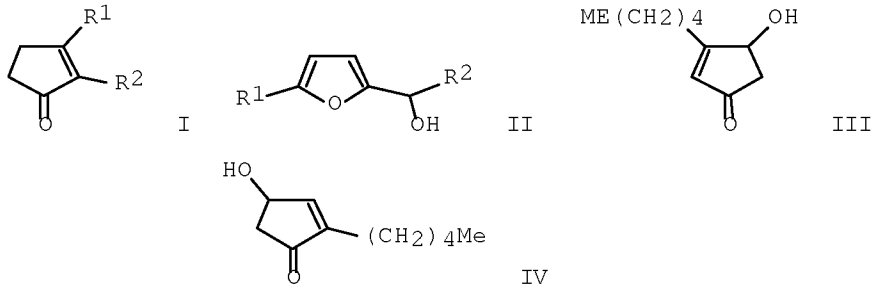


CC 62-2 (Essential Oils and Cosmetics)
IT 77-53-2, α-Cedrol 78-70-6, Linalool 88-84-6, β-Guaiene
88-84-6D, Guaiene, derivs. 88-84-6D, Guaiene, isomers 89-83-8, Thymol
92-51-3 93-15-2, Methyl eugenol 98-55-5, α-Terpineol
108-95-2, Phenol, biological studies 138-87-4, β-Terpineol
141-10-6, Pseudoionone 469-92-1, Clovene 471-16-9, cis-Sabinol
473-15-4, β-Eudesmol 478-61-5 483-76-1, Δ-Cadinene
488-10-8, cis-Jasmone 507-70-0, Borneol 513-23-5, Isothujol 527-90-2
535-77-3, β-Cymene 546-28-1, β-Cedrene 546-28-1D,
β-Cedrene, derivs. 546-28-1D, β-Cedrene, isomers 562-74-3
624-15-7 639-99-6, Elemol. 1365-19-1 1405-16-9 3691-11-0,
Δ-Guaiene 4602-84-0, Farnesol 5951-67-7, α-Elemene
6753-98-6, α-Caryophyllene 13199-54-7, 2,3,5,6-Tetramethyl-1,4-
dimethoxybenzene 16725-98-7, 4-Caranol 17429-55-9 17677-87-1,
Pulegone oxide 17699-05-7, α-Bergamotene 25013-16-5,
Butylhydroxy anisole 25013-16-5D, isomers 25491-20-7, Patchoulane
25702-11-8 30021-74-0 34883-05-1, 3-Methoxy-2,4,6-trimethylphenol
35732-37-7 43205-82-9, p-Menth-6-en-2-one 54576-35-1,
2-(4-Isopropylphenoxy)ethanol
RL: BIOL (Biological study)
(of Pulicaria oils)

L19 ANSWER 23 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1984:630033 HCAPLUS Full-text
DOCUMENT NUMBER: 101:230033
ORIGINAL REFERENCE NO.: 101:34921a,34924a
TITLE: 2-Cyclopentenones
INVENTOR(S): Minai, Masayoshi; Katsura, Tadashi
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd. , Japan
SOURCE: Ger. Offen., 23 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3338853	A1	19840510	DE 1983-3338853	19831026 <--
DE 3338853	C2	19940526		
JP 59078141	A	19840504	JP 1982-189883	19821027 <--
JP 04037814	B	19920622		
US 4496767	A	19850129	US 1983-543152	19831018 <--
FR 2535314	A1	19840504	FR 1983-16979	19831025 <--

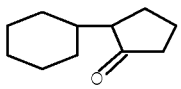
FR 2535314 B1 19860829
CH 656610 A5 19860715 CH 1983-5810 19831026 <--
PRIORITY APPLN. INFO.: JP 1982-189883 A 19821027 <--
OTHER SOURCE(S): MARPAT 101:230033
ED Entered STN: 22 Dec 1984
GI



AB Cyclopentenones I (R1 = H, alkyl, alkenyl; R2 = aliphatic group, cycloalkyl, aryl, aralkyl), useful in perfumes, were prepared via rearrangement of furancarbinols II. Thus, II (R1 = H, R2 = pentyl) in H2O was adjusted to pH 4.6-5.0 and stirred at 100° to give 87% of a mixture of cyclopentenones III and IV which was dissolved in AcOH and treated with NaOAc 6 h at 80-90°in order to esterify III. The mixture was treated with Zn powder and kept 4 h at 80-100° to give 95.7% I (R = H, R2 = pentyl) and 0.37% 2-pentylcyclopentanone by-product. Omitting the esterification step gave 92% I (R1 = H, R2 = pentyl) and 4.1% 2-pentylcyclopentanone.

IT 39858-70-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(by-product in preparation of cyclopentenone derivative)

RN 39858-70-3 HCAPLUS
CN Cyclopentanone, 2-cyclohexyl- (CA INDEX NAME)



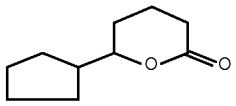
IC C07C049-647; C07C049-597; C07C049-613; C07C049-657; C07C045-65; C11D003-50; A61K007-46
CC 24-4 (Alicyclic Compounds)
Section cross-reference(s): 62
IT 4819-67-4P 7051-39-0P 13074-63-0P 13074-65-2P 30079-93-7P 39858-70-3P 42537-02-0P 50397-90-5P 51608-18-5P 56621-07-9P 93177-72-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(by-product in preparation of cyclopentenone derivative)

L19 ANSWER 24 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1984:610986 HCAPLUS Full-text
DOCUMENT NUMBER: 101:210986
ORIGINAL REFERENCE NO.: 101:31967a,31970a
TITLE: δ-Cyclopentyl-δ-lactone
PATENT ASSIGNEE(S): Taiyo Perfumery Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

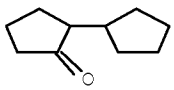
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59122484	A	19840714	JP 1982-230558	19821228 <--

PRIORITY APPLN. INFO.: JP 1982-230558 19821228 <--
ED Entered STN: 24 Jan 2007
GI



I

AB δ-Cyclopentyl-δ-lactone (I) was prepared by treating 2-cyclopentylcyclopentanone (II) with AcOOH (III) and used in perfume compns. Thus, 228 g 40% III in AcOEt was added to 152 g II during 2 h at 30-40° and the whole stirred 3 h at room temperature to give 83 g I.
IT 4884-24-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(oxidation of, with peracetic acid)
RN 4884-24-6 HCAPLUS
CN [1,1'-Bicyclopentyl]-2-one (CA INDEX NAME)



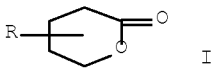
IC C07D309-30; A61K007-46
CC 27-13 (Heterocyclic Compounds (One Hetero Atom))
Section cross-reference(s): 62
IT 4884-24-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(oxidation of, with peracetic acid)

L19 ANSWER 25 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1981:461610 HCAPLUS Full-text
DOCUMENT NUMBER: 95:61610
ORIGINAL REFERENCE NO.: 95:10399a,10402a
TITLE: Cyclohexyl pentanolides and their use in perfume

INVENTOR(S): Sundt, Erling; Aschiero, Roland; Schenk, Walter
PATENT ASSIGNEE(S): Firmenich S. A., Switz.
SOURCE: U.S., 5 pp. Division of U.S. Ser. No. 2,178, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4251398	A	19810217	US 1979-87510	19791023 <--
PRIORITY APPLN. INFO.:			US 1979-2178 A3	19790109 <--

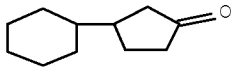
ED Entered STN: 12 May 1984
GI



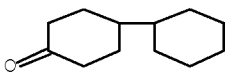
I

AB The lactones I (R = 3-cyclohexyl, 4-cyclohexyl) were prepared Thus 2-cyclopenten-1-one was treated with cyclohexyl chloride to give 3-cyclohexylcyclopentanone which was oxidized with H2O2-HCO2H to give 80% I at a 65:35 mixture of the 3- and 4-cyclohexyl derivs. This mixture was added to perfume compns. to make them more tenacious.

IT 10264-57-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidation of)
RN 10264-57-0 HCAPLUS
CN Cyclopentanone, 3-cyclohexyl- (CA INDEX NAME)



IT 92-68-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 92-68-2 HCAPLUS
CN [1,1'-Bicyclohexyl]-4-one (CA INDEX NAME)

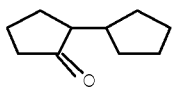


IC C11B009-00
INCL 252522000R
CC 24-5 (Alicyclic Compounds)
Section cross-reference(s): 27, 62
IT 10264-57-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidation of)
IT 92-68-2P 62948-64-5P 71796-70-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

L19 ANSWER 26 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1981:139313 HCAPLUS Full-text
DOCUMENT NUMBER: 94:139313
ORIGINAL REFERENCE NO.: 94:22801a,22804a
TITLE: 2-Cyclopentylcyclopentanone, fragrance or flavoring compositions containing it and their use
INVENTOR(S): Shiozaki, Shozo; Senuma, Mitsushi; Furumai, Shigehiro; Kawashima, Horoshi
PATENT ASSIGNEE(S): Nippon Zeon Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 9 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 16650	A2	19801001	EP 1980-300894	19800321 <--
EP 16650	A3	19801015		
R: CH, DE, FR, GB, NL				
JP 55127316	A	19801002	JP 1979-35337	19790326 <--
PRIORITY APPLN. INFO.:			JP 1979-35337 A	19790326 <--

ED Entered STN: 12 May 1984
AB 2-Cyclopentylcyclopentanone (I), which was prepared from cyclopentanone, was used in the preparation of a dentifrice, a soap, and a fragrance or flavoring composition (with a jasmine-like smell). Thus, cyclopentanone was heated with NaOH, and the 2-cyclopentylidenecyclopentanone obtained was hydrogenated over Pd to give I.
IT 4884-24-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and uses of, as flavoring material and fragrance)
RN 4884-24-6 HCAPLUS
CN [1,1'-Bicyclopentyl]-2-one (CA INDEX NAME)



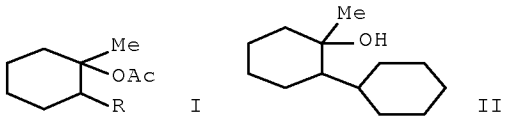
IC C07C049-417; C07C045-62; C07C045-74; C07C049-653
CC 24-4 (Alicyclic Compounds)
Section cross-reference(s): 17, 46, 62
IT 4884-24-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and uses of, as flavoring material and fragrance)

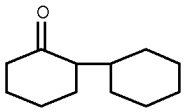
L19 ANSWER 27 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1980:6146 HCAPLUS Full-text
DOCUMENT NUMBER: 92:6146
ORIGINAL REFERENCE NO.: 92:1155a,1158a
TITLE: Cyclohexanes
INVENTOR(S): Helmlinger, Daniel; Naegeli, Peter
PATENT ASSIGNEE(S): Givaudan, L., et Cie. S. A., Switz.
SOURCE: Eur. Pat. Appl., 27 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 2510	A1	19790627	EP 1978-101620	19781211 <--
EP 2510	B1	19810211		
R: BE, CH, DE, FR, GB, IT, NL				
US 4277618	A	19810707	US 1978-966427	19781204 <--
CA 1116180	A1	19820112	CA 1978-318142	19781207 <--
BR 7808067	A	19790807	BR 1978-8067	19781208 <--
JP 54095547	A	19790728	JP 1978-152127	19781211 <--
JP 62000898	B	19870110		
ES 475908	A1	19800516	ES 1978-475908	19781211 <--
US 4375428	A	19830301	US 1980-187880	19800917 <--
PRIORITY APPLN. INFO.:			LU 1977-78670	19771212 <--
			CH 1978-11175	19781030 <--
			US 1978-966427 A3	19781204 <--

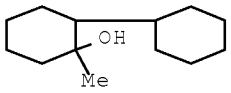
OTHER SOURCE(S): MARPAT 92:6146
ED Entered STN: 12 May 1984
GI



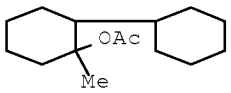
AB I [R = cyclohexyl (Ia), Me3C, MeCHEt] were prepared as perfume constituents. Thus 2-cyclohexylcyclohexanone and MeMgI gave II, which was acetylated in PhNMe2 with Ac2O-AcCl to give Ia. Compns. for use were given.
IT 90-42-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(Grignard reaction of, with Me iodide)
RN 90-42-6 HCAPLUS
CN [1,1'-Bicyclohexyl]-2-one (CA INDEX NAME)



IT 72183-71-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 72183-71-2 HCAPLUS
CN [1,1'-Bicyclohexyl]-2-ol, 2-methyl- (CA INDEX NAME)



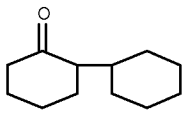
IT 72183-74-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as perfume component)
RN 72183-74-5 HCAPLUS
CN [1,1'-Bicyclohexyl]-2-ol, 2-methyl-, acetate (9CI) (CA INDEX NAME)



IC C07C069-14; C07C035-08; C07C035-21; C07C067-08
CC 24-5 (Alicyclic Compounds)
Section cross-reference(s): 62
IT 90-42-6 1728-46-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(Grignard reaction of, with Me iodide)
IT 72183-71-2P 72183-72-3P 72183-73-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
IT 72183-74-5P 72183-75-6P 72188-25-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as perfume component)

L19 ANSWER 28 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1979:534706 HCAPLUS Full-text
DOCUMENT NUMBER: 91:134706
ORIGINAL REFERENCE NO.: 91:21661a,21664a
TITLE: Antimicrobial activity of aroma chemicals and essential oils
AUTHOR(S): Morris, J. A.; Khettry, A.; Seitz, E. W.
CORPORATE SOURCE: Res. Dev. Dep., Int. Flavors and Fragrances, Inc., Union Beach, NJ, 07735, USA
SOURCE: Journal of the American Oil Chemists' Society (

1979), 56(5), 595-603
CODEN: JAOCA7; ISSN: 0003-021X
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
AB Of 521 fragrance materials tested, 44% were inhibitory against 1 of 3 test organisms (Staphylococcus aureus, Escherichia coli, or Candida albicans), and 15% were effective against all 3. Of 212 compds. subsequently tested against Corynebacterium, 30% were pos. against all 4 test organisms; however, only 4% had a minimal inhibitory concentration (MIC) as low as 50 ppm, compared with the control soap bacteriostat TCC which had a MIC of 0.08 ppm. In hand-disinfectant tests, no reduction of bacterial counts was observed in soaps containing the most active fragrance compds. Apparently, a practical antimicrobial soap fragrance is not likely.
IT 90-42-6
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(antimicrobial activity of)
RN 90-42-6 HCAPLUS
CN [1,1'-Bicyclohexyl]-2-one (CA INDEX NAME)



CC 3-2 (Biochemical Interactions)
Section cross-reference(s): 62
IT 57-55-6, biological studies 60-12-8 65-85-0, biological studies
75-18-3 78-37-5 78-70-6 79-92-5 81-14-1 81-15-2 83-66-9
84-66-2 85-91-6 88-84-6 89-78-1 89-79-2 90-17-5 90-42-6
91-64-5 93-08-3 93-15-2 93-16-3 93-53-8 93-58-3 93-89-0
94-48-4 97-53-0 97-54-1 97-63-2 97-89-2 98-01-1, biological studies 98-53-3 99-75-2 100-51-6, biological studies 100-52-7, biological studies 100-86-7 101-39-3 101-84-8 101-85-9 101-86-0
102-20-5 103-05-9 103-26-4 103-45-7 103-50-4 103-53-7 103-84-4
103-95-7 104-46-1 104-54-1 104-67-6 104-93-8 105-01-1 105-90-8
106-22-9 106-23-0 106-24-1 106-25-2 106-44-5, biological studies
107-75-5 111-27-3, biological studies 111-80-8 112-30-1 112-38-9
112-53-8 115-95-7 118-58-1 118-71-8 119-53-9 119-61-9, biological studies 120-51-4 120-72-9, biological studies 121-32-4
121-33-5 121-39-1 122-40-7 122-48-5 122-63-4 122-67-8 122-78-1
123-11-5, biological studies 124-13-0 124-19-6 124-76-5 127-91-3
131-11-3 134-20-3 138-86-3 140-11-4 140-39-6 141-92-4 142-50-7
150-84-5 326-61-4 488-10-8 489-86-1 498-16-8 502-99-8 507-70-0
536-60-7 544-40-1 564-94-3 629-80-1 698-87-3 825-51-4 937-30-4
1123-85-9 1222-05-5 1321-59-1 1321-60-4 1329-99-3 1331-83-5
1333-13-7 1333-49-9 1333-53-5 1333-58-0 1335-09-7 1335-10-0
1335-12-2 1335-14-4 1337-83-3 1754-00-3 2050-08-0 2216-45-7
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4395-92-0 5392-40-5 5405-83-4 5764-85-2 5989-33-3 6485-40-1
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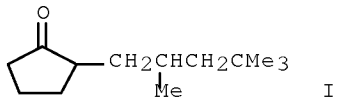
51193-76-1 53894-33-0 53951-50-1 54533-29-8 55599-63-8

59230-57-8 63449-68-3 65405-73-4 68426-08-4 68426-09-5
71386-18-0 71386-19-1 71437-04-2 71437-06-4
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(antimicrobial activity of)

L19 ANSWER 29 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1977:490584 HCAPLUS Full-text
DOCUMENT NUMBER: 87:90584
ORIGINAL REFERENCE NO.: 87:14325a,14328a
TITLE: Relation of odor to the structure of some alkylcyclanones
AUTHOR(S): Mekhtiev, S. D.; Suleimanova, E. T.; Musaev, M. R.; Babazade, S. S.; Alimardanova, Kh. M.
CORPORATE SOURCE: Inst. Neftekhim. Protsessov im. Mamedalieva, Baku, USSR
SOURCE: Doklady - Akademiya Nauk Azerbaidzhanskoi SSR (1976), 32(12), 46-52
CODEN: DAZRA7; ISSN: 0002-3078
DOCUMENT TYPE: Journal
LANGUAGE: Russian
ED Entered STN: 12 May 1984
GI

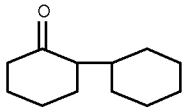


I

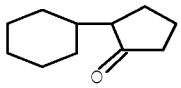
AB Introduction of a n-alkyl group on the cyclopentanone ring at the α-position caused a fatty odor increasing in intensity from Me to Pr and a strong jasmine scent for C4-C7. Branched amyl- and hexylcyclopentanones with geminal terminal Me groups gave a jasmine scent with strong fruity of woody overtones. 2-(2,4,4- Trimethylamyl)cyclopentanone (I) [63141-41-3] had a intensive scent with predominantly woody and fatty tones. Substitution of a Me or Et group at the α'-position of a cyclopentanone ring carrying a n-alkyl group weakened the jasmine scent and increased the fruity tones. Cyclohexanone derivs. had a weaker jasmine scent than their pentanone analogs. Introduction of an α-Me group caused a strong fatty odor among cycloalkylcyclanones.

IT 90-42-6 39858-70-3 63807-82-9
63807-83-0
RL: PRP (Properties)
(odor of)

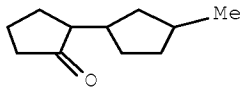
RN 90-42-6 HCAPLUS
CN [1,1'-Bicyclohexyl]-2-one (CA INDEX NAME)



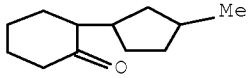
RN 39858-70-3 HCAPLUS
CN Cyclopentanone, 2-cyclohexyl- (CA INDEX NAME)



RN 63807-82-9 HCAPLUS
CN [1,1'-Bicyclopentyl]-2-one, 3'-methyl- (CA INDEX NAME)



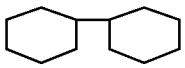
RN 63807-83-0 HCAPLUS
CN Cyclohexanone, 2-(3-methylcyclopentyl)- (CA INDEX NAME)



CC 62-5 (Essential Oils and Cosmetics)
Section cross-reference(s): 24
IT 90-42-6 108-94-1D, alkyl derivs. 120-92-3 120-92-3D, alkyl derivs. 137-03-1 934-42-9 1120-72-5 1193-70-0 3313-59-5 4819-67-4 4971-18-0 5760-68-9 6078-66-6 13074-65-2 14203-41-9 16425-04-0 24848-00-8 24857-25-8 32362-97-3 39858-70-3 63141-40-2 63141-41-3 63807-77-2 63807-78-3 63807-79-4 63807-80-7 63807-81-8 63807-82-9 63807-83-0
RL: PRP (Properties)
(odor of)

L19 ANSWER 30 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1975:144817 HCAPLUS Full-text
DOCUMENT NUMBER: 82:144817
ORIGINAL REFERENCE NO.: 82:23110h,23111a
TITLE: Volatility of perfumes and essential oils on Sil Blotting paper. Methods for the determination of the volatility coefficient VK or VK2
AUTHOR(S): Mueller, Arno
CORPORATE SOURCE: Geneva, Switz.
SOURCE: Seifen, Oele, Fette, Wachse (1975), 101(1), 11-14
CODEN: SOFWAF; ISSN: 0173-5500
DOCUMENT TYPE: Journal
LANGUAGE: German

ED Entered STN: 12 May 1984
AB The volatility coeffs. of perfumes and essential oils on Sil Blotting paper were determined by applying 0.1-0.3 g of the material to be tested (as 10% alc. solution if it is solid) to a weighed 2 cm + 17 cm paper strip, evaporating the alc., weighing, and determining the weight loss at specified intervals. The VK and VK2 coeffs. were calculated from the weight loss, time, and capillary expansion of the paper. VK and VK2 values were given for a large series of aromatic substances.
IT 92-51-3
RL: PRP (Properties)
(volatility coefficient of, determination of, as perfumes)
RN 92-51-3 HCAPLUS
CN 1,1'-Bicyclohexyl (CA INDEX NAME)



CC 62-2 (Essential Oils and Cosmetics)
IT 60-12-8 64-17-5, properties 67-56-1, properties 67-63-0, properties
71-23-8, properties 71-36-3, properties 71-41-0 77-93-0 78-35-3
78-70-6 78-83-1 81-14-1 81-15-2 83-34-1 83-66-9 84-66-2
85-91-6 87-91-2 88-29-9 89-79-2 89-80-5 89-83-8 89-88-3
90-02-8, properties 90-05-1 90-87-9 91-64-5 92-48-8
92-51-3 93-04-9 93-15-2 93-16-3 93-18-5 93-28-7
93-53-8 93-58-3 93-89-0 93-92-5 94-30-4 94-48-4 97-53-0
97-54-1 97-62-1 97-89-2 98-85-1 98-86-2, properties 99-49-0
99-72-9 100-51-6 100-52-7, properties 100-86-7 101-41-7 101-48-4
101-81-5 101-84-8 101-86-0 101-97-3 102-13-6 102-16-9 103-05-9
103-26-4 103-28-6 103-36-6 103-37-7 103-38-8 103-41-3 103-45-7
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109-94-4 110-41-8 111-12-6 111-27-3 111-70-6 111-71-7 111-77-3
111-87-5 111-90-0 112-30-1 112-42-5 112-44-7 112-53-8 112-66-3
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properties 119-84-6 120-50-3 120-51-4 120-57-0 120-72-9
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123-69-3 124-13-0 124-19-6 126-64-7 127-41-3 127-51-5 128-51-8
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141-78-6, properties 143-14-6 144-39-8 145-39-1 150-84-5
151-05-3 494-90-6 495-45-4 499-75-2 502-72-7 536-50-5 540-07-8
540-18-1 557-00-6 589-59-3 628-63-7 639-99-6 659-70-1 699-02-5
705-73-7 827-52-1 941-98-0 1117-61-9 1118-27-0 1126-79-0
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1335-06-4 1335-10-0 1335-12-2 1490-04-6 1565-75-9 2049-96-9
2050-01-3 2050-08-0 2345-26-8 2550-26-7 2835-39-4 3487-99-8
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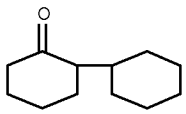
55599-05-8 55599-63-8 55599-64-9 55599-86-5 55599-95-6

55599-96-7 55599-97-8 55600-12-9 55600-29-8 55600-32-3
55600-41-4 55600-44-7 56211-65-5
RL: PRP (Properties)
(volatility coefficient of, determination of, as perfumes)

L19 ANSWER 31 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1975:76970 HCAPLUS Full-text
DOCUMENT NUMBER: 82:76970
ORIGINAL REFERENCE NO.: 82:12279a,12282a
TITLE: Fragrance raw materials. 2-Cyclohexyl cyclohexanone
AUTHOR(S): Opdyke, D. L. J.
CORPORATE SOURCE: Res. Inst. Fragrance Mater. Inc., Englewood Cliffs, NJ, USA
SOURCE: Food and Cosmetics Toxicology (1974), 12(3), 399
CODEN: FCTXAV; ISSN: 0015-6264
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
ED Entered STN: 12 May 1984
GI For diagram(s), see printed CA Issue.
AB A review with 7 refs. on 2-cyclohexylcyclohexanone (I) [90-42-6] and its use as a fragrance.
IT 90-42-6
RL: BIOL (Biological study)
(fragrance)
RN 90-42-6 HCAPLUS
CN [1,1'-Bicyclohexyl]-2-one (CA INDEX NAME)



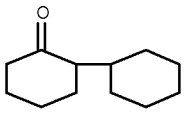
CC 62-0 (Essential Oils and Cosmetics)
IT 90-42-6
RL: BIOL (Biological study)
(fragrance)

L19 ANSWER 32 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1973:75785 HCAPLUS Full-text
DOCUMENT NUMBER: 78:75785
ORIGINAL REFERENCE NO.: 78:12031a,12034a
TITLE: Perfumes from alkylphenols. XVIII. Synthesis of 2- and 4-cyclohexylcyclohexanones
AUTHOR(S): Moldovanskaya, G. I.; Il'ina, G. P.; Kheifits, L. A.
CORPORATE SOURCE: USSR
SOURCE: Tr. Vses. Nauch.-Issled. Inst. Sin. Natur. Dushist. Veshchestv (1971), No. 9, 77-81
From: Ref. Zh., Khim. 1972, Abstr. No. 16R426
DOCUMENT TYPE: Journal
LANGUAGE: Russian
ED Entered STN: 12 May 1984
AB The 2- and 4-cyclohexylcyclohexanones (I and II resp.) were synthesized by hydrogenation of 2- and 4-cyclohexylphenol (III and IV resp.) and a subsequent oxidation of resulting 2- and 4-cyclohexylcyclohexanol (V and VI resp.). I has a mint odor and a cooling taste, and the odor of II resembles that of 4-

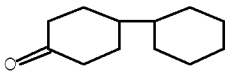
tert-butylcyclohexanone. I and II can be used for perfuming soaps and cosmetic prepns. III and IV were obtained by alkylation of PhOH with cyclohexene. A mixture of 1.04 mole PhOH and 0.73 g. Al was heated 5 hr at 170-80° in an autoclave, cooled to 40°, 0.84 mole cyclohexene was added and the mixture was heated again at 210-15° for 5 hr. Yield of alkylation product was 35%, b5 135-60°, and contained III 77, IV 2, cyclohexyl phenyl ether (VII) 13, and 8% unidentified impurities. Chromatog. on Al2O3 isolated III from petroleum ether. A mixture of 1.22 mole PhOH, 0.61 mole cyclohexene, and 11.5 mole askanite, heated at 180° for 5 hr yielded 47% alkylation product, b8 200-38°, containing III 28, and IV 72%. Chromatog. on Al2O3 isolated IV from C6H6. Reaction of PhOH with cyclohexene in the presence of BF3 solution in HOAc yielded 42% alkylation product containing III 78, IV 13, and 1% VII. Hydrogenation of III on Raney Ni at 150-200° and 125 atm yielded 80% of the mixture of cis- and trans-V. Analogous hydrogenation of IV gave a mixture of cis- and trans-VI in 89% yield. Oxidation of V with a chromic mixture at 20° yielded 72.5% I.

IT 90-42-6P 92-68-2P
RL: PREP (Preparation)
(from cyclohexylphenol, for perfumes)

RN 90-42-6 HCAPLUS
CN [1,1'-Bicyclohexyl]-2-one (CA INDEX NAME)



RN 92-68-2 HCAPLUS
CN [1,1'-Bicyclohexyl]-4-one (CA INDEX NAME)



CC 62-5 (Essential Oils and Cosmetics)

IT Cosmetics
Soaps
RL: BIOL (Biological study)
(perfumes for, cyclohexylcyclohexanones for)

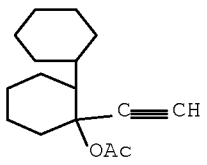
IT 90-42-6P 92-68-2P
RL: PREP (Preparation)
(from cyclohexylphenol, for perfumes)

L19 ANSWER 33 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1972:461367 HCAPLUS Full-text
DOCUMENT NUMBER: 77:61367
ORIGINAL REFERENCE NO.: 77:10147a,10150a
TITLE: Cyycloalkanone derivatives for perfumes
INVENTOR(S): Nikawitz, Edward J.; Tavares, Robert; Easter, William Marvin
PATENT ASSIGNEE(S): Givaudan, L., Et Cie. S. A.

SOURCE: Ger. Offen., 49 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2155671	A	19720518	DE 1971-2155671	19711109 <--
DE 2155671	B2	19810108		
DE 2155671	C3	19811203		
US 3769330	A	19731030	US 1970-88494	19701110 <--
ZA 7107114	A	19720726	ZA 1971-7114	19711025 <--
CH 568950	A5	19751114	CH 1971-15808	19711029 <--
CH 575757	A5	19760531	CH 1974-16892	19711029 <--
IT 951597	B	19730710	IT 1971-30886	19711109 <--
ES 396810	A1	19740601	ES 1971-396810	19711109 <--
SE 385117	B	19760608	SE 1971-14306	19711109 <--
CA 996135	A1	19760831	CA 1971-127213	19711109 <--
BE 775152	A1	19720510	BE 1971-110335	19711110 <--
NL 7115452	A	19720515	NL 1971-15452	19711110 <--
NL 161126	C	19800115		
NL 161126	B	19790815		
AU 7135565	A	19730517	AU 1971-35565	19711110 <--
BR 7107487	D0	19730614	BR 1971-7487	19711110 <--
GB 1344653	A	19740123	GB 1971-52176	19711110 <--
SU 422134	A3	19740330	SU 1971-1766176	19711110 <--
JP 51026430	B	19760806	JP 1971-89749	19711110 <--
US 3852219	A	19741203	US 1973-363933	19730525 <--
JP 51110047	A	19760929	JP 1976-17833	19760220 <--
JP 54017010	B	19790627		

PRIORITY APPLN. INFO.: US 1970-88494 A 19701110 <--
ED Entered STN: 12 May 1984
GI For diagram(s), see printed CA Issue.
AB Cycloalkanol derivs. I (R = EtMeCH, Bu, Me2CHCH2, Me3C, Me2CH, cyclohexyl; R1 = HC.tplbond.C, H2C:CH, Et, H; R2 = OH, AcO, EtCO2, HCO2; n = 0, 1, 2) and 3-sec-butyl-1-ethynylcyclohexanol and its acetate, useful as odorants, were prepared by reductive alkylation of cyclohexanones I [(R1R2) = O] and esterification. Thus 393 g 2-sec-butylcyclohexanone was added to 225 g LiC.tplbond.CH-H2NCH2CH2NH2 complex in C6H6 to give 194 g I (R = EtMeCH, R1 = HC.tplbond.C, R2 = H, n = 1) (56.5% cis-, 42.4% trans-) which has a strong mossy odor.
IT 37172-19-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 37172-19-3 HCAPLUS
CN [1,1'-Bicyclohexyl]-2-ol, 2-ethynyl-, acetate (9CI) (CA INDEX NAME)

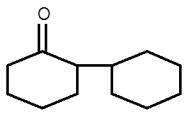


IC C07C; C11B
CC 24-5 (Alicyclic Compounds)
Section cross-reference(s): 62
IT 91-54-3P 4632-01-3P 6376-92-7P 37172-03-5P 37172-06-8P
37172-07-9P 37172-08-0P 37172-09-1P 37172-10-4P 37172-11-5P
37172-12-6P 37172-13-7P 37172-14-8P 37172-15-9P 37172-16-0P
37172-17-1P 37172-19-3P 37172-20-6P 37172-21-7P
37172-22-8P 37172-23-9P 37172-92-2P 37172-94-4P 37172-96-6P
37870-25-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

L19 ANSWER 34 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1967:520128 HCAPLUS Full-text
DOCUMENT NUMBER: 67:120128
ORIGINAL REFERENCE NO.: 67:22679a,22682a
TITLE: Cyclohexylcyclohexanone as an odor stabilizer in mercaptoacetate hair-treating preparations
INVENTOR(S): Cook, Marvin K.
PATENT ASSIGNEE(S): Allied Chemical Corp.
SOURCE: U.S., 2 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

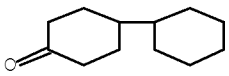
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3331743		19670718	US 1964-363299	19640428 <--

ED Entered STN: 12 May 1984
AB A common defect of hair-treating prepns. containing mercapto compds. is development of an H2S or similar noxious odor. The choice of perfuming agents is also restricted because of the high pH required by the mercapto compds. in formulation. This invention provides for a depilatory or cold-waving formulation that does not deteriorate on long-term storage. Thus, a waving lotion was formulated containing NH4 mercaptoacetate (60% solution) 8.76, NH4OH (26° Be.) 3.98, nonionic emulsifier 2.00, water 84.26, and a 50:50 cyclohexylcyclohexanone-poly(oxyethylene) sorbitan monooleate (Tween 80) mixture 1.00% by volume An example of a depilatory formula was also given that was based on Ca mercaptoacetate and Ca(OH)2. This formula contained 0.5% of cyclohexylcyclohexanone and when applied to the skin and left on for 5 min. before washing off, developed no sulfide odor.
IT 90-42-6
RL: BIOL (Biological study)
(as odor stabilizer in mercaptoacetate depilatories and hair-waving compns.)
RN 90-42-6 HCAPLUS
CN [1,1'-Bicyclohexyl]-2-one (CA INDEX NAME)

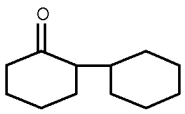


INCL 167087100
CC 62 (Essential Oils and Cosmetics)
IT 90-42-6
RL: BIOL (Biological study)
(as odor stabilizer in mercaptoacetate depilatories and hair-waving compns.)

L19 ANSWER 35 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1967:22114 HCAPLUS Full-text
DOCUMENT NUMBER: 66:22114
ORIGINAL REFERENCE NO.: 66:4239a,4242a
TITLE: Aromatic chemical products used in cosmetics--aromas and odors are being used more and more
AUTHOR(S): Schweisheimer, W.
SOURCE: Parfumerie, Cosmetique, Savons (1966), 9(8), 363-7
CODEN: PFCSAS; ISSN: 0369-9099
DOCUMENT TYPE: Journal
LANGUAGE: French
ED Entered STN: 12 May 1984
AB Chemical names, phys. consts., and cosmetic uses of citroviol, dorisyl, lavamenthe, C-64, C-66, rose soap, cyclotene, Synalyl-D, prentaline, and α-methylcinnamaldehyde are given.
IT 92-68-2
RL: BIOL (Biological study)
(cosmetic uses and phys. consts. of)
RN 92-68-2 HCAPLUS
CN [1,1'-Bicyclohexyl]-4-one (CA INDEX NAME)



IT 90-42-6
RL: BIOL (Biological study)
(perfume uses and phys. constant of)
RN 90-42-6 HCAPLUS
CN [1,1'-Bicyclohexyl]-2-one (CA INDEX NAME)



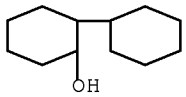
CC 62 (Essential Oils and Cosmetics)
IT Cosmetics
(citroviol, dorisyl, prentaline and other aromatic chemicals used in)
IT 92-68-2 98-53-3
RL: BIOL (Biological study)
(cosmetic uses and phys. consts. of)
IT 90-42-6

RL: BIOL (Biological study)
(perfume uses and phys. constant of)

L19 ANSWER 36 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1950:28490 HCAPLUS
DOCUMENT NUMBER: 44:28490
ORIGINAL REFERENCE NO.: 44:5552a-b
TITLE: Insect repellent and sun-protecting cosmetic preparations
PATENT ASSIGNEE(S): Gebruder Schnyder & Co., A.G.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CH 257578		19490401	CH	<--

ED Entered STN: 22 Apr 2001
AB Cosmetic prepns. are disclosed containing insect repellents, such as esters of dicarboxylic acids, as from 2-ethyl-1,3-hexanediol, 2-phenylcyclohexanol, and 2-cyclohexylcyclohexanol and ultraviolet absorbing chemicals, such as esculin, umbelliferone, anthranilic or salicylic acid derivs., etc. Thus, an emulsion is made from glyceryl monostearate 5, o-H2NC6H4CO2Me 3, C4H8(CO2Et)2 10, water 81.5, and perfume and antioxidant 0.5 parts.
IT 6531-86-8, Cyclohexanol, 2-cyclohexyl-
(esters, insect-repellent and sun-protecting cosmetics containing)
RN 6531-86-8 HCAPLUS
CN [1,1'-Bicyclohexyl]-2-ol (CA INDEX NAME)



INCL 116H
CC 17 (Pharmaceuticals, Cosmetics, and Perfumes)
IT Cosmetics
(insect-repellent and sun-protecting)
IT 1444-64-0, Cyclohexanol, 2-phenyl- 6531-86-8, Cyclohexanol, 2-cyclohexyl-
(esters, insect-repellent and sun-protecting cosmetics containing)

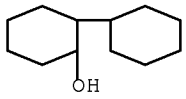
L19 ANSWER 37 OF 37 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1949:52174 HCAPLUS Full-text
DOCUMENT NUMBER: 43:52174
ORIGINAL REFERENCE NO.: 43:9335g-h
TITLE: Insect repellents as cosmetics
AUTHOR(S): McAllister, W. G.
SOURCE: Soap, Perfumery & Cosmetics (1949), 22, 848-50,882
CODEN: SPCOAH; ISSN: 0037-749X
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
ED Entered STN: 22 Apr 2001

AB The use of di-Me phthalate (I), indalone (II), Rutgers-612 (III), NMRI-448 (7 parts 2-phenylcyclohexanol and 3 parts 2-cyclohexylcyclohexanol), 622 (60% I, 20% II, and 20% III), dimethyl Carbate (dimethyl ester of cis-bicyclo[2.2.1]-5-heptene-2,3-dicarboxylic acid), and citronella oil is discussed. Several formulations in which I is employed are detailed.

IT 6531-86-8, Cyclohexanol, 2-cyclohexyl-
(mixture with 2-phenylcyclohexanol, as insect repellent in cosmetics)

RN 6531-86-8 HCAPLUS

CN [1,1'-Bicyclohexyl]-2-ol (CA INDEX NAME)



CC 15A (Economic Poisons)

IT Cosmetics
(insect repellents as)

IT 6531-86-8, Cyclohexanol, 2-cyclohexyl-
(mixture with 2-phenylcyclohexanol, as insect repellent in cosmetics)

***** SEARCH HISTORY *****

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                 SEL RN

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L3               STRUCTURE UPLOADED
                 D
L4             6 SEA SSS SAM L3
L5               SCR 2043
L6             6 SEA SSS SAM L3 NOT L5

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Uploading L2.str
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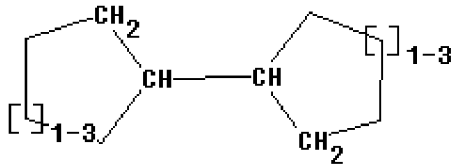

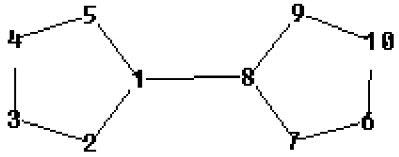


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ring nodes :
1  2  3  4  5  6  7  8  9  10
chain bonds :
1-8
ring bonds :
1-2  1-5  2-3  3-4  4-5  6-7  6-10  7-8  8-9  9-10
exact bonds :
1-2  1-5  1-8  2-3  3-4  4-5  6-7  6-10  7-8  8-9  9-10
isolated ring systems :
containing 1 : 6 :


Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:Atom




L8            50 SEA SSS SAM L7

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L11         15583 SEA SSS FUL L7 NOT L5
                  SAVE TEMP L11 SHO588REGL2/A

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L13             3 SEA ABB=ON  PLU=ON  L12 AND 62-4/SC,SX
L14            51 SEA ABB=ON  PLU=ON  L12 AND 62/SC,SX
                  E COSMETICS/CT
                  E E3+ALL
L15         59221 SEA ABB=ON  PLU=ON  (COSMETICS/CT OR "COSMETICS AND PERSONAL
                  CARE PRODUCTS"/CT)
L16            12 SEA ABB=ON  PLU=ON  L12 AND L15
L17            43 SEA ABB=ON  PLU=ON  L14 NOT L16
L18            55 SEA ABB=ON  PLU=ON  L13 OR L14 OR L16
L19            37 SEA ABB=ON  PLU=ON  L18 AND (AY<2003 OR PY<2003 OR PRY<2003)
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L21            36 SEA ABB=ON  PLU=ON  BOTH S?/AU
L22            56 SEA ABB=ON  PLU=ON  PRINZ D?/AU
L23             1 SEA ABB=ON  PLU=ON  SCHOEFFLER N?/AU
L24            95 SEA ABB=ON  PLU=ON  WESTFECHTEL A?/AU
L25             1 SEA ABB=ON  PLU=ON  (((L20 OR L21 OR L22 OR L23 OR L24)) AND
                  L12) OR (L1 AND L12)
                  SAVE TEMP L25 SHO588HCAIN/A

     FILE 'REGISTRY' ENTERED AT 10:45:33 ON 23 APR 2008
L26             9 SEA ABB=ON  PLU=ON  L12 AND (MEDLINE/LC OR BIOSIS/LC OR
                  BIOTECHNO/LC OR KOSMET/LC)

     FILE 'MEDLINE' ENTERED AT 10:46:10 ON 23 APR 2008
L27             0 SEA ABB=ON  PLU=ON  L26

     FILE 'BIOSIS' ENTERED AT 10:46:20 ON 23 APR 2008
L28            17 SEA ABB=ON  PLU=ON  L26
L29             0 SEA ABB=ON  PLU=ON  L28 AND (COSMET? OR PERFUME? OR SUNSCREEN?
                  OR EMULS?)
L30             0 SEA ABB=ON  PLU=ON  L28 AND SURFACT?

     FILE 'BIOTECHNO' ENTERED AT 10:47:49 ON 23 APR 2008
L31             0 SEA ABB=ON  PLU=ON  L26

     FILE 'KOSMET' ENTERED AT 10:48:03 ON 23 APR 2008

     FILE 'MEDLINE, BIOSIS, BIOTECHNO, KOSMET' ENTERED AT 10:48:20 ON 23 APR
     2008

L33            64 SEA ABB=ON  PLU=ON  ANSMANN A?/AU
L34            42 SEA ABB=ON  PLU=ON  BOTH S?/AU
L35            29 SEA ABB=ON  PLU=ON  PRINZ D?/AU
L36             0 SEA ABB=ON  PLU=ON  SCHOEFFLER N?/AU
L37            14 SEA ABB=ON  PLU=ON  WESTFECHTEL A?/AU
L38             1 SEA ABB=ON  PLU=ON  L33 AND ((L34 OR L35 OR L36 OR L37))
L39             0 SEA ABB=ON  PLU=ON  L34 AND ((L35 OR L36 OR L37))
L40             0 SEA ABB=ON  PLU=ON  L35 AND ((L36 OR L37))
L41             0 SEA ABB=ON  PLU=ON  L35 AND L37
                  D TI AU L38
                  SAVE TEMP L38 SHO588MULTIN/A
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     FILE 'STNGUIDE' ENTERED AT 10:51:05 ON 23 APR 2008
                D QUE L25
                D QUE L38

     FILE 'HCAPLUS, BIOSIS' ENTERED AT 10:51:55 ON 23 APR 2008
L42             2 DUP REM L25 L38 (0 DUPLICATES REMOVED)
                      ANSWER '1' FROM FILE HCAPLUS
                      ANSWER '2' FROM FILE BIOSIS
                D L42 1 IBIB ABS HITSTR
                D L42 IBIB AB
                D L42 2 BIB AB
                D QUE L19
                D L19 IBIB ED ABS HITSTR HITIND 1-37
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